



FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS
Viale delle Terme di Caracalla, Rome, Italy

CURRENT BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

INDEXES TO SUPPLEMENT 1

prepared by
Biology Branch, Fisheries Division

Geographic Index, Suppl. 1
Taxonomic Index, Suppl. 1
Subject Index, Suppl. 1
Citation Index, Suppl. 1

Curr.Bibliogr.aquat.Sci.Fish., 1, Suppl. (Index) Rome 1961

Contains geographic, taxonomic, subject and citation indexes
to references 570001 - 571944

To Suppl.1

On the cover page "Containing:

references 570001-571994...."should read "Containing references 570001-571944...."

- 570026 Thunnus thynnus should read Thunnus thynnus
- 0027 Chirosoma should read Chirostama
- 0029 Gnathostenotroides should read GNATHOSTENETROIDES
- 0033 F should read MF
- 0041 yellow sea should read Yellow Sea
- 0062 Candida should read Candida
- 0078 delete the entry
- 0092 substitute the entry with the following:

Beadle, L.C. (1957) 570092
Annu. Rev. Physiol., 19:329-58
Comparative physiology: osmotic and
ionic regulation in aquatic animals

Reviews literature up to July 1956.
Deals with all taxonomic groups, with
emphasis on comparison of marine and
freshwater forms.

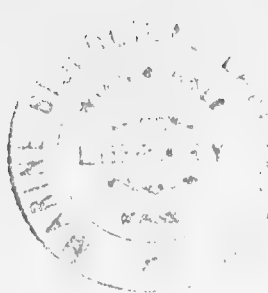
FiB:sjh

MF

- 0106 polychaeta should read Polychaeta
- 0110 coelenterata should read Coelenterata
- 0139 V.stromia should read B.stromia
- 0250 delete the last sentence of the annotation:
"Something like this perhaps for model; the
report generally follows this pattern."
- 0257 Paudalus should read Pandalus
- 0472 gewässer should read Gewässer
- " bedingungen should read Bedingungen
- 0484 Nebula should read nebula
- 0529 gulf of Mexico should read Gulf of Mexico
- 0530 Parundinella should read PARUNDINELLA
- 0567 J.H. Mundi in the
5th sentence of
the annotation should read J.H. Mundie

570568	<u>Crystallolithus</u>	should read	CRYSTALLOLITHUS
0625	Author	should read	"Union of South Africa. Government"
0713)		
0743)		
0764)		
1067)		
1114)		
1150)		
1164)		
1264)		
1290)		
1422)		
1433)	Reference should read	"Paper presented at the 38th annual meeting, American Geophysical Union, Washington, D.C., April 29-May 2 1957"
1465)		
1511)		
1570)		
1646)		
1684)		
1760)		
1779)		
1843)		
0739	Acanthaires	should read	acanthaires
0800	<u>Therogra</u>	should read	<u>Theragra</u>
0813	Tricoptera	should read	Trichoptera
0814	mitteilung	should read	Mitteilung
0814	wassergehaltes	should read	Wassergehaltes
0814	schollen	should read	Schollen
0814	klieschen	should read	Klieschen
0856	Luminescence	should read	luminescence

570858	Murmanskaya biologicheskaya stantsiya	should read	Murmanskaia biologicheskaiia stantsiia
0900	wassers	should read	Wassers
0957	<u>Cpistorchis</u>	should read	<u>Cpisthorchis</u>
0957	(in freshwater fish: <u>Cyclops</u> and <u>Diaptomus</u>)	should read	(in freshwater copepods: Cyclops and Diaptomus)
1040	Author	should read	Macan, T.T. and J.C. Mackereth
1060	Tubellaria	should read	Turbellaria
1162	<u>Boregadus</u> <u>saida</u>	should read	<u>Boreogadus</u> <u>saida</u>
1172	tube-worm	should read	tube-worm
1195	Reference	should read	<u>Hydrobiologia</u> , 9(4):348-60
5711224		should read	571224
1274	fih	should read	fish
1386	insert the omitted reference:		<u>Limnol.Oceanogr.</u> , 2(3):281-6
1441	Saskatchewan	should read	Saskatchewan
1641	Synopsis	should read	Synopses
1718	Langudock	should read	Longuedock
1737	fund	should read	Fund
1751	<u>Scaphirus</u>	should read	<u>Scaphiopus</u>
1796	<u>percidae</u>	should read	<u>Percidae</u>
1812	delete the entry		
1834	Iwashi	should read	iwashi
1843	<u>Cassopeia</u>	should read	<u>Cassiopea</u>



Geographic Index, Supplement 1
for references 570001 to 571944

100	AFRICA	0412	0882	1814	155	Transvaal		0292
					156	Madagascar	0405	1902
110	Africa, N.W.	0246	0538	0840				
		1022			200	NORTH AMERICA	1104	1142
111	Tunisia		0174	1279				
112	Algeria	0415	0432	to 0435	210	<u>Canada</u>	0140	0154 0248
		0462	0738	1157 1704			0249 0250	0324 0395
		1705					0426 0758	0790 0796
113	Morocco	0561	1068	1069			0798 0995	1042 1115
121	Libya			1267			1246 1373	1400 1456
122	UAR, Southern Region (Egypt)		0287	1594			1472 1478	1500 1504
123	Sudan			1594	211	Canadian Arctic	1682 1720	1777 1863
130	<u>Africa, E. Central</u>	0347	0552			Canada, N.W. Territories	1369	1680
		1028 1029	1045 1496				0790 0893	1019 1441
132	Uganda	0346	0639	1656	212	British Columbia	0009	0142
133	Tanganyika	0558	0726	0831			0233 0245	0637 0757
		0832					0983 1007	1119 1167
134	Zanzibar and Pemba			1593			1198 1261	1268 1330
140	Africa, W. Central	0552	1045				1503 1584	1585 1644
		1867 1893					1719 1744	
141	Republic of the Ivory Coast	0406	0964	1917	213	Alberta	0325	0362 0649
	Islamic Republic of Mauritania		0406		215	Saskatchewan		1441
	Republic of Niger		0371			Quebec	0155	1728 1729
	Republic of Senegal	0445	0446		216	Labrador	0147	0148 0614
		0512 0644	0767 0836				1531 1608	1760
		1089				Newfoundland	0414	0518
144	Sierra Leone	0979	1118	1756			0790 0970	0985 1608
	Ghana			0215			1613 1628	
145	Br. Cameroons			0082	217	St. Pierre and Miquelon		1608
146	Republic of Congo	0596	1869			New Brunswick	0541	0602
147	Federal Republic of the Congo		0410	1363			1608 1862	
150	<u>Africa, S.</u>	0559	1496	1499		Nova Scotia	0156	0157 0541
		1869					0616 0969	0985 1094
151	Angola	0370	1233	1405 1476			1096 1608	1626
152	S.W. Africa			0841	220	Prince Edward I.	0541	0969
154	Union of S. Africa	0205	0234				1472 1501	
		0388 0409	0611 0681			<u>Alaska</u>	0635	0728 1162
		1041 1058	1177		222		1396 1881	
						Aleutian Is.		0136 0735
							1472 1605	1789

79040

223	Pribilof Is.				1472	235	Mississippi	0032	0033	0034
230	<u>USA</u>	0031	0149	0150	0222			0065	0653	0656
		0235	0261	0390	0497			0731	1221	0704
		0653	0660	0765	0783		New Mexico	0763	0924	1356
		0785	0788	0790	0796		Oklahoma	0189	0448	1340
		0822	0830	0842	0845		Tennessee			1432
		0846	0998	1036	1053		Texas	0032	0033	0034
		1070	1091	1108	1137			0418	0536	0653
		1138	1176	1182	1218			0763	1221	1324
		1243	1256	1257	1258			1340	1356	1325
		1317	1318	1326	1327	236	New England		1114	1381
		1372	1435	1443	1564		Connecticut		0224	1454
		1606	1645	1673	1674		New Hampshire			1183
		1675	1676	1677	1678		Maine	0065	0339	0447
		1679	1681	1682	1798			1522		1047
		1804	1805	1923	1932		Massachusetts		0837	1364
	District of Columbia			0065	0324			1365	1439	1639
231	Idaho	0120	0455	0456	0824			1809		1693
		1093					Rhode I.			1545
	Oregon	0229	0728	1167	1217	237	Delaware	0585	0855	1580
		1935					Maryland		1056	1083
	Washington State	0015	0637	0728			New Jersey		0320	0620
		1242	1321	1323	1417		New York	0197	0224	0349
		1611	1644					0691	0850	1018
232	California	0011	0083	0118	0119			1146	1245	1316
		0239	0240	0241	0242		Pennsylvania	0600	1878	1918
		0333	0618	0667	0728			1919		
		0766	0823	0884	0885		Virginia	0037	0038	0509
		1090	1106	1167	1188			0658	0694	1095
		1197	1328	1351	1401			1775		1724
		1402	1520	1614	1786	238	S. Atlantic States			0186
		1787	1855	1922			N. Carolina	0032	0033	0034
	Utah			1093	1686			0065	0330	1039
233	Colorado				1248		S. Carolina	0032	0033	0034
	Montana				0331		Georgia		0756	1175
	Wyoming				0332		Florida	0013	0032	0033
234	Iowa			0254	0636			0034	0065	0421
	Kansas			1292	1424			0534	0653	0702
	Michigan	0086	0160	1754				1208	1214	1221
	Minnesota	0509	0636	1123				1355	1548	1551
	Missouri	0509	0636	1084				1808		1739
	Ohio			0243	0888	240	<u>Bermudas</u>			1565
	Wisconsin	0296	0636	0960		250	<u>Greenland</u>	0927	1105	1315
235	USA, S.			0990				1514		
	Alabama	0032	0033	0034	0065					
		0653	0731	1221		300	LATIN AMERICA			
	Louisiana	0032	0033	0034	0065	310	<u>Mainland Central America</u>			0408
		0389	0653	1027	1221			1104	1559	1931
		1247	1521	1734	1745	315	Panama			0286
		1901	1933							

317	Honduras				1168	432	Thailand	0419	0783	1620
320	Caribbean Is.				1230		1621			
321	Bahamas	0033	0164	0259	0421	433	Malaya		0783	1444
		1244	1520			434	Indonesia		0783	1690
	Br.Caribbean Federation			0549	1415	435	New Guinea (Neth.)			0956
				1843		436	N. Borneo			0786
322	Cuba				1548	437	Philippines		0783	1255
325	Puerto Rico	0461	0789	1062	1144	438	Cambodia			0783
		1346					Thailand		0383	0783
	Virgin Is.(U.S.)				0549	441	Chinese People's			
326	Guadeloupe				1148		Republic		0291	0759
327	Neth.W.Indies			1846	1847		Manchuria			0482
331	Colombia				0474	444	Korea			0783
332	Venezuela		0402	1092	1241	451	Japan	0058	0059	0060
340	S.America, W.		0630	1110	1438			0348	0659	0729
324	Peru	0128	0399	1691	1849			0746	0748	to
343	Chile	0399	0400	1055	1849			0776	0777	0780
350	S.America, E.				1110			0783	0796	0802
351	Brazil	0403	0404	1101	1898			0804	0809	0816
		1939						0849	0873	0874
353	Argentina				0918			0880	0907	1111
354	Falkland Is.			0353	1088			1165	1191	1192
								1204	1205	1206
400	ASIA			0584	0784			1211	1212	1215
								1391	1392	1393
410	<u>Asia, S.W.</u>				0516			1590	1602	1603
413	Israel	0108	0307	0490	0510			1638	1683	1742
		0511	0913	0914	0993			1799	1818	1823
		1200	1201	1236	1300			1825	1834	1839
		1406	1455	1540	1591		Japan, Hokkaido		0800	0801
		1592	1636	1746	1773			0889	0890	0903
		1774	1778	1828	1829			0912	1408	1409
		1830						1841	1842	
416	Iraq				1319		Japan, Honshu		0916	0917
417	Iran			0928	1749			1651		
421	Pakistan				0783		Japan, Shikoku		0854	0925
423	India	0123	0124	0125	0265			1129	1463	1464
		0277	0572	0783	0864			1572	1652	1653
		0870	0933	0934	0935	453	Formosa			1937
		0949	0950	0951	1102					
		1124	1235	1240	1265	500	EUROPE		1213	1377
		1287	1311	1312	1313					
		1407	1480	1711	1712	511	Denmark	0152	0373	0374
		1795						0790	1708	1709
424	Ceylon				0783	512	Faroe Is.		1577	1589
430	<u>Asia, S.E.</u>				0784	513	Iceland	0790	0927	1897
431	Burma				0783					

514	Norway	0085	0152	0191	0258	533	England (contd.)	1509	1518
		0621	0640	0693	0790		1527	1596	1597
		0838	0862	0891	0911		1668	1669	1758
		1076	1547	1558	1599		1776	1832	1874
		1767	1791	1870					1938
515	Svalbard			0146	1737		Wales		0275
516	Sweden	0256	0350	0505	0506	534	Scotland	0121	0247
		0740	0774	1051	1079		0736	0770	1105
		1133	1203	1297	1562		1442	1701	1748
		1858				535	Northern Ireland		0152
517	Finland	0843	0847	0987	1001	540	Europe, S.		1037
		1011	1012	1238	1239	541	Portugal	0251	0358
		1383	1384	1385	1389		0790	1202	1251
		1397	1475	1482	1483		1278	1379	1277
		1687	1688			542	Spain	0519	0711
521	Netherlands		0152	0595	0783		0790	0959	1025
		1178	1179	1913			1063	1064	1065
522	Belgium			0152	1857		1271	1395	1399
524	France	0063	0066	0112	0138		1560		1447
		0139	0180	0182	0211	543	Italy	0178	0179
		0274	0282	0327	0328		0502	1000	1052
		0495	0545	0652	0760		1536		1224
		0783	0794	0952	0992		Sardinia		0064
		1075	1078	1250	1273		Sicily		0647
		1274	1298	1436	1581	550	Europe, S.E.		0178
		1610	1622	1649	1718	551	Yugoslavia	1163	1296
		1722	1725	1726	1816	553	Greece		1740
525	Monaco	0941	0942	1143	1251	555	Roumanian Peoples Republic		0295
		1390					0080	0232	0253
530	<u>British Isles</u>		0152	0158	0623		1050	1187	1539
		0709	1171	1172	1302	556	Turkey	0005	0050
		1479	1485	1574	1666		0055	0267	0268
		1940					0486	1231	1617
531	Ireland	0420	0628	1635	1650		1647	1648	1618
		1769	1770	1771	1772		Anatolia		1689
532	United Kingdom	0061	0184	0199		560	<u>Europe, E. Central</u>		1037
		0632	0672	0701	0783	561	Germany	1430	1630
		0790	0967	0997	1194		Federal Republic of		
		1220	1310	1343	1486		Germany	0152	0745
		1506	1577	1589	1670		0791	0940	1002
		1671	1672				1033	1034	1362
533	England	0014	0187	0188	0313		1431		1421
		0314	0338	0396	0494	562	Switzerland		0811
		0571	0617	0771	0902	563	Austria	0470	0593
		1017	1040	1041	1071	570	<u>Europe, E. Central</u>		1474
		1128	1249	1288	1342	571	German Democratic Republic		1037
		1370	1371	1460	1508		0008	0228	1103
							1418	1420	1426
									1428

572	Poland	0569	0812	1848	710	<u>Russian FSSR</u>	0136	0598
573	Czechoslovakia	0464	0487	0868		0858 0937	0944	1049
		0869	0962	1126		1132 1270	1275	1850
574	Hungary	1126	1195	1615	731	Estonian SSR		1467
600	OCEANIA		0982	1380	751	Ukrainian SSR	0807	1262
						1507		
610	<u>Australia</u>	0068	0145	0289	800	SPECIAL INTERCONTINENTAL		
		0783	0926	1074		REGIONAL GROUPINGS		
		1154	1337	1624	812	Southern Hemisphere		0288
		1781	1860	1905	817	Tropics		0724
		1930	1942		820	<u>Antarctic Continent</u>		0945
611	Northern Territory		1380	1811		1004 1661		
612	Western Australia	1359	1360	1525	863	Fr.Community		0650
		1526	1625	1943				
613	S. Australia	0341	0359	0360	A	Atlantic Ocean	0203	0204
		0976	1046	1359		0580 0670	0725	0732
		1525	1526			0910 0969	1096	1423
614	Victoria			1625	AN	Atlantic, N.	0427	0713
615	New S. Wales	0360	0542	0961		0790 0791	1059	1341
		1299				1379 1489	1517	1612
616	Queensland	0542	0696	1074		1663 1664	1665	1810
		1299	1445	1868	ANW	Atlantic, N.W.	0224	0238
		1908	1909	1928		0395 0591	0790	0986
617	Tasmania		1380	1625		1354 1513	1514	1576
618	Macquarie I.		1380		ANW.01	Baffin B.		1448
	Norfolk I.		1380		ANW.02	Davis Strait	1448	1517
620	New Guinea Trust Territory		0304		ANW.03	Hudson B.	1448	1517
622	Bismarck Archipelago		1380		ANW.04	G.of St. Lawrence	0393	
623	Bougainville I.		1380			0394 0509	0972	to
	Solomon Is.(Austr.)	0853	1380			0975 0985	1136	1366
624	Papua		1380	1887		1448 1517	1532	1627
630	<u>New Zealand</u>	0090	0209	0273	ANW.05	G.of Maine		1416
		0772	0773	0833	ANW.06	Chesapeake B.	0260	0280
		1005	1031	1184		0281 1085	1427	
		1821			ANE	Atlantic, N.E.	0030	0127
632	Cook Is.			1286		0927 1320	1354	
641	Fr. Oceania			0067	ANE.02	Barents Sea	0088	0133
660	<u>Hawaii</u>	0162	0906	1336		0810 1125	1870	
673	Caroline Is.			1820	ANE.04	North Sea	0113	0121
674	Marshall Is.		0391	0425		0326 0367	0369	0588
700	USSR	0003	0091	0482		0814 0821	1033	1054
		0805	0817	0908		1301 1320	1431	1537
		0923	0936	0939		1629 1700	1791	1879
		1032	1120	1158	ANE.05	Baltic Sea	0018	0019
		1189	1190	1253		0588 0844	1033	1238
		1276	1331	1347		1879		
		1468	1469	1553	ANE.06	G.of Bothnia	1238	1481
		1631	1685	1844				
		1892	1927	1865				

ANE.07	G.of Finland			1238	ISW.01	Red Sea	0511	1609
ANE.08	English Channel	0030	0044	0366	ISW.03	Persian G.	0754	1609
	1903				ISW.05	Arabian Sea	0818	0870
ANE.09	Irish Sea		0507	1519	ISE.06	B.of Bengal	0078	0572
AS	<u>Atlantic, S.</u>			0033	ISEW	Indopacific, Central		0028
ASW	Atlantic, S.W.	0214	0222	0284		0162	0163	0867
	0285					0909	1216	1361
ASW.01	G. of Mexico	0198	0222	0283		1655		1654
	0401	0421	0453	0529	ISEW.02	S.China Sea	0291	0999
	0530	0531	1528	1529	ISEW.04	E.China Sea		0565
	1880				ISEW.05	Yellow Sea		0041
ASW.02	Caribbean Sea	0185	1272	1936	ISEW.06	Inland Sea of Japan		1836
ASE	Atlantic, S.E.			0952		1850		
ASE.01	Bay of Biscay	0044	0703	1098	ISEW.18	Coral Sea	1358	1361
ASE.02	Mediterranean Sea		0051	0178	ISE	Pacific, S.E.	0301	0741
	0179	0279	0415	0510		0861	0886	1167
	0538	0769	1100					
ASE.05	Mediterranean Sea, Eastern		0039		P	POLAR SEAS	0084	1680
	0430	0431	0622	0768				
	1180				PN	<u>Arctic Ocean</u>	0202	0343
ASE.09	Sea of Marmara		1616	1864		0348	0390	0613
ASE.10	Black Sea	0021		0024		1161	1162	1423
	0069	0438	0648	0778		1896		1431
	1016	1398	1633	1706	PN.01	N.Polar Basin	0514	0515
	1864					1382		
ASE.11	Sea of Azov	0377	0859	0866	PS	Southern Ocean	0074	0299
	1334	1470	1723			0359	0450	0710
						0839	0945	1109
I	INDOPACIFIC OCEAN		0376	0391	PSEW	S. Polar Seas	0095	0131
	0416	0460	0604	0670		0166	0450	0451
	0683	0688	0783	0856				1004
	0897	1087	1226	1228	L	INLAND SEAS AND INTERTERRITORIAL		
	1266	1304	1352	1388		LAKE SYSTEMS		
	1466	1926						
IN	Pacific, N.	0020	0106	0132	L.11	<u>E.African Lakes</u>	0528	0553
	0233	0244	0637	0718		0576	0577	0596
	0737	0796	1009	1131		0638	0677	0714
	1167	1586	1587	1588		1060	1449	1595
	1607	1765	1910			1656	1713	1714
IN.01	Japan Sea		1080	1081	L.21	<u>American Great Lakes</u>		0217
IN.02	Sea of Okhotsk		1131	1387		0363	0489	0892
IN.03	Bering Sea	0172	0735	0779		1914		1505
	0871	1790			L.31	<u>L.Liticaca</u>		0878
IS	<u>Tropical Indopacific</u>		0742	1655	L.72	Caspian Sea	0377	0923
ISW	Indian Ocean	0048	0077	0205		0928	0939	1710
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	1495	1497	1609	1655				

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	0073	0092	0094	1,12 Hydrolagus			0637
	0114	0150	0196				
	0207	0208	0214	1,17 Acipenser	0377	0928	1197
	0312	0318	0364		1557	1852	
	0385	0392	0401	ACIPENSERIDAE		1120	1373
	0435	0444	0461	Huso			0928
	0487		0487				
	0543	0561	0567	1,21 Alepocephalus			0432
	0612		0612				
	0647	0654	0676	Alosa			1728
	0687	0698	0741	Caspialosa			1706
	0886	0904	0912	Cetengraulis			0028
	0919	0924	0948	Clupea harengus	0030		0121
	0982	0983	0992		0127	0153	0169
	1063	1064	1080		0184	0218	0248
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	1690	1727	1733		1627	1628	1668
	1740	1750	1780		1767	1862	1873
	1827	1836	1882				1874
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1,07 Carcharodon			1416	Engraulis japonica	0058		0059
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Scylliogaleus			1499	Sardina	0021	0035	0036
					0358	0366	0433
1,09 Etmopterus		0575	0809		0501	0712	0959
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1,10 Dasyatris			1394	1,22 Channa			1212
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					0847	1003	1467
							1606

1,23	<i>Cristivomer</i>	0142	0217	0362	1,28	<i>Arapaima</i>		1110
	0489	0649	1577		1,29	<i>Anotopterus</i>		1765
	<i>Leucichthys</i>			1505	1,32	<i>Bathypetrolis</i>		0432
	<i>Mallotus</i>			1162		<i>Chlorophthalmus</i>		0101
	<i>Oncorhynchus</i> , gen.	0020	0683			<i>Harpodon</i>		1860
	1352	1586	1587	1588		<i>Myctophum</i>		0591
	<i>Oncorhynchus gorbusha</i>		0306		1,36	<i>Gnathonemus</i>		1583
	0317	0753	1682			<i>Gymnarchus</i>		1583
	<i>Oncorhynchus keta</i>	0758	1130		1,38	<i>Alestes</i>		0371
	<i>Oncorhynchus kisutch</i>		0015			<i>Anoptichthys</i>		0826
	0758	1119	1321	1323		<i>Astyanax</i>		0826
	<i>Oncorhynchus nerka</i>	0009	0143		1,40	<i>Abramis</i>	0805	0928
	0227	1321	1330	1632		<i>Acanthobrama</i>		1830
	1682	1719	1935			<i>Acheilognathus</i>	0729	0730
	<i>Oncorhynchus tshawytscha</i>	0317				<i>Algansea</i>		0027
	0333	0471	0667	0668		<i>Aristichthys</i>		0782
	1026	1106	1119	1351.		<i>Barbus</i>	0869 1411 1539	1540
	1502					1830		
	<i>Oncorhynchus sp.</i>	0133	0482			<i>Blicca</i>		0454
	1132	1804	1854			<i>Brachydanio</i>		0785
	<i>Osmerus</i>		0600	1918		<i>Campostoma</i>		0704
	<i>Plecoglossus</i>			0957		<i>Capoetobrama</i>		1049
	<i>Salmo clarkii</i>	0144	0332	1720		<i>Carassius</i>	0027 0278	0493
	<i>Salmo gairdnerii</i>	0007	0042				0916 0917 1211 1212	
	0141	0144	0270	0271			1293 1391 1411	1763
	0331	0667	0692	0750		<i>Catostomus</i>		1606
	0751	0899	0990	1183		<i>Chalcalburnus</i>		0928
	1188	1210	1243	1352		<i>Chrosomus</i>	1441	1919
	1502	1503	1606	1607		<i>Cobitis</i>		0908
	1720	1876	1877	1925		<i>Ctenopharyngodon</i>		0782
	<i>Salmo salar</i>	0019	0147	0148		<i>Cyprinella</i>		0590
	0180	0255	0258	0517		<i>Cyprinus</i>	0027 0170	0171
	0844	1059	1105	1297			0253 0578 0745	0752
	1501	1574	1635	1650			0780 0803 0807	0876
	1730	1770	1771	1858			0923 0928 0936	0987
	<i>Salmo trutta</i>	0086	0120	0247			1002 1108 1145	1146
	0642	0689	0844	1188			1165 1212 1391	1393
	1297	1383	1384	1385			1418 1420 1432	1591
	1428	1442	1477	1574			1602 1606 1829	1839
	<i>Salmo sp.</i>	0027	0593	1212		CYPRINIDAE	0003	0716
	1256	1257	1328			<i>Danio</i>	0277	1473
	SALMONIDAE	0601	0845	0846		<i>Erimyzon</i>		1918
	1478	1504	1510	1645		<i>Evarra</i>		0037
	1817	1932				<i>Hybognathus</i>		1441
	<i>Salvelinus alpinus</i>			0613		<i>Hyborhynchus</i>		1891
	<i>Salvelinus fontinalis</i>			0217		<i>Hypophthalmichthys</i>		0782
	0629	1183	1258	1445		<i>Leuciscus</i>	1411	1539
	1500	1501	1876			<i>Minytrema</i>		1918
	<i>Salvelinus sp.</i>	0027	1772			<i>Misgurnus</i>		1212
	<i>Spirinchus</i>		0823			<i>Moostoma</i>		1356
	<i>Thymallus</i>		0181			<i>Noconis</i>		1919
1,24	<i>Dallia</i>			1162				
	ESOCIDAE			0715				
	<i>Esox</i>	0018	0116	0715	0868			
		1003	1091	1155	1769			

1,40	<i>Notemigonus</i>			1918	1,48	<i>Theragra</i>			0800
	<i>Notropis</i>	0027	0192	0590					
		1918	1919		1,50	<i>Eucalia</i>			1919
	<i>Pantosteus</i>			1441		<i>Gasterosteus</i>	0181	0757	1411
	<i>Pfrittle</i>			1441					
	<i>Pimephales</i>	1763	1891	1919	1,51	<i>Hippocampus</i>		0100	1416
	<i>Ptychocheilus</i>			0824		<i>Nerophis</i>			0100
	<i>Rhinichthys</i>			1919		<i>Syngnathus</i>			0102
	<i>Rhodeus</i>			1411					
	<i>Rutilus</i>	0308	0928	1126	1,54	<i>Lophotus</i>			1749
	<i>Semotilus</i>			0704					
	<i>Varicorhinus</i>		1540	1830	1,57	<i>Chologaster</i>			1762
	<i>Vimba</i>			0928		CYPRINODONTIDAE			1364
						<i>Gambusia</i>			0762
1,41	<i>Ameiurus</i>			0682		<i>Lebistes</i>			1530
	<i>Clarias</i>		0828	1830		POECILIIDAE			0003
	<i>Ictalurus</i>	0302	0682	1084		<i>Xiphophorus</i>		0062	1693
		1606							
	<i>Noturus</i>			1919	1,61	<i>Caristius</i>			1765
	<i>Parasilurus</i>		1211	1212					
	<i>Plotosus</i>			1212	1,62	<i>Capros</i>			0101
	SILURIDAE			0003					
	<i>Wallagonia</i>			0863	1,65	<i>Agonostomus</i>			0033
1,42	ANGUILLIFORMES			1143		<i>Aldrichetta</i>		1624	1625
						<i>Chirostoma</i>			0027
1,43	<i>Anguilla anguilla</i>	0256		1033		<i>Mugil</i>	0022	0032	0033
		1079	1303				0486	0928	1340
	<i>Anguilla japonica</i>		0753	1403			1416	1868	1407
	<i>Anguilla sp.</i>	0558	0559	0602	1,67	<i>Ophicephalus</i>			1411
		0841	1155	1212					
	<i>Echelus</i>			0102	1,70	<i>Algoa</i>			1782
	<i>Ophichthys</i>			0431		<i>Austrosparus</i>			1868
1,44	<i>Nemichthys</i>			0432		<i>Bolesoma</i>			1919
						<i>Brama</i>			1268
1,47	<i>Cololabis</i>			1561		<i>Caranx</i>			1129
	<i>Cypsilurus</i>			0048		CICHLIDAE			1640
	<i>Strongylura</i>			0102		<i>Chrysophrys</i>		1391	1859
						<i>Coris</i>		0101	1496
1,48	<i>Boreogadus</i>			1162		<i>Coryphaena</i>			1391
	<i>Eleginus</i>			0659		<i>Ctenolabrus</i>			0504
	<i>Gadus macrocephalus</i>			0637		<i>Cymatogaster</i>			0757
	<i>Gadus merlangus</i>	0420		0605		<i>Dascillus</i>			0574
		1194	1666	1668		<i>Decapterus</i>	1129	1391	1528
		1709					1655		
	<i>Gadus morhua</i>	0413	0518	1094		<i>Dicentrarchus</i>			0100
		1275	1379	1532		<i>Etheostoma</i>	0761	0763	1796
		1666	1668	1870		<i>Gomphosus</i>			1555
	<i>Gadus poutassou</i>			0705		<i>Haplochromis</i>			0638
	<i>Gadus sp.</i>	0504		0605		<i>Ichthyoscopus</i>			0696
	<i>Lota</i>			0374		<i>Julis</i>			1496
	<i>Melanogrammus</i>			1890		LABRIDAE			1497
	<i>Merluccius merluccius</i>			1666		<i>Lateolabrax</i>			1602
		1668	1671			<i>Lepomis</i>	0026	0042	0389
	<i>Pollachius</i>	0621	1125	1563			1176	1763	1146
		1668				<i>Luciooperca</i>		0928	1428

1,70	<i>Lutjanus</i>			1880	1,75	<i>Rastrelliger</i>		0077	1313
	<i>Micropogon</i>			0694		<i>Sarda</i>	0024	0052	1416
	<i>Micropterus</i>	0027	0097	0682		<i>Scomber scombrus</i>		0023	1903
		0884	0885	1146		<i>Scomber sp.</i>		1391	1393
	<i>Naucrates</i>			1416		<i>Scomberomorus commerson</i>			1154
	<i>Nippon</i>			1212		<i>Scomberomorus queenslandicus</i>			1154
	<i>Opistognathus</i>			0164		<i>Scomberomorus sp.</i>			1154
	<i>Oplegnathus</i>			0907		<i>Xiphias</i>	1055	1072	1739
	<i>Pagellus</i>		1300	1616	1,76	<i>Anabas</i>			0586
	<i>Pagrosomus</i>			0780		<i>Betta</i>			0004
	<i>Paratilapia</i>			1902		<i>Cubiceps</i>			0432
	<i>Perca flavescens</i>	0223		1754		<i>Stromateus</i>			0100
	<i>Perca fluviatilis</i>	0007		0018		<i>Tetragonurus</i>			1605
		1428			1,77	GOBIIDAE			1590
	<i>Percina</i>		0761	0763		<i>Gobius</i>		0080	0778
	<i>Plectroplites</i>			1542		<i>Neogobius</i>			1470
	<i>Pomoxis</i>			1146		<i>Pomatoschistus</i>			0080
	<i>Pseudopriacanthus</i>			1416	1,78	<i>Cottus</i>		0635	1509
	<i>Ptychochromis</i>			1902		<i>Hexagrammos</i>		1211	1212
	<i>Roccus</i>	0389	0998	1036		<i>Lepidotrigla</i>			1212
		1803		1316		<i>Myoxocephalus</i>		1161	1162
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	<i>Sarpa</i>			0100		<i>Pterois</i>			1212
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	<i>Temnodon</i>			1648		<i>Germo</i>	0662	0742	1122
	<i>Tilapia</i>	0173	0274	0287			1513	1654	1910
		1029	1176	1593		<i>Katsuwonus</i>		0662	0707
		1937		1656			0849	0913	0964
	<i>Trachurus</i>		0387	1058			1388	1466	1934
		1177	1391	1398		<i>Neothunnus</i>		0446	0707
	<i>Upeneus</i>			0622			0722	0853	0964
1,71	<i>Anarhichas</i>		0088	1737			1464	1572	1638
	<i>Lembeichthys</i>			0999			1819	1820	1943
1,72	<i>Ammodytes</i>		0801	0890		<i>Parathunnus</i>		0879	1121
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	<i>Hoplobrotula</i>			1212		THUNNIFORMES	0445	0555	0565
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	<i>Siganus</i>			0100			1696	1739	1917
1,74	<i>Acanthurus</i>			0198		<i>Thunnus thynnus</i>		0026	0648
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	<i>Microstomus</i>	0119	1194
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1,89 *Monacanthus* 0907

1,92 *Sicyases* 1702 1703

1,95 *Raphidiopsis* 1312

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0250 0254 0263 0264
0265 0267 0268 0296
0298 0301 0309 0314
0324 0327 0328 0329
0335 0341 0361 0365
0373 0379 0403 0405
0408 0439 0449 0470
0481 0492 0500 0502
0503 0506 0507 0527
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0641 0644 0655 0656
0660 0663 0664 0672
0681 0695 0711 0735
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0854 0858 0859 0861
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0741 0836 0904 0912
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	Chirocephalus			0759			Mysidopsis			0186
2,05	Bosmina				1314	2,23	Gnathostenetroides			0029
	Daphnia	0181	0547	0634	1451		Idotea			1086
		1477	1487				ISOPODA	0412		1104
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	Moina				0181		Limnoria			0566
	Simocephalus			0748	0749		Mesidotea			0350
2,09	COPEPODA		0245	0412	0878		Storthyngura			0136
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2,10	Acanthocyclops				0804		Gammarus	1040		1220
	Arcatia				0251		Hyale			0772
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	Boeckella				0833		Orchestia			0773
	Bradyidius				0529	2,25	Lysiosquilla			0074
	CALANIDAE			0319	0579		Squilla			0797
	Calanopia				0185	2,26	Euphausia			0856
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	Cyclops				0957		Hippolyte			0257
	Diaptomus		0628		0957		Leander			1610
	Euchaeta				0529		Lysmata			0257
	Eurytemora				1003		Metapenaeus			1102
	Haliencyclops				0804		NATANTIA	1179	1417	1881
	Lichomolgus				0623			1909	1913	1930
	Metaboeckella				0833		Palaemonetes		0200	0201
	Metridia				1301		Pandalus	0257	0637	1128
	Octopicola				0769		Parapenaeus			1102
	Paracyclops				0804		PENAEIDAE			1299
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	0703	0714	0736
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	0855	0865	0880
	0931	0940	0970
	1043	1071	1182
	1208	1218	1261
	1288	1290	1298
	1326	1362	1383
	1435	1449	1454
	1527	1558	1562
	1573	1585	1594
	1637	1643	1662
	1685	1718	1726
	1861	1938	1776

3. PLANKTON

3.1 <u>General</u>	0039	0040	0214
	0312	0319	0364
	0904	0912	0913
	0963	0982	0983
	1080	1081	1251
	1451	1535	1566
3.2 <u>Zooplankton</u>	0021	to	0026
	0106	0128	0162
	0245	0291	0319
	0376	0423	0461
	0530	0531	0547
	0579	0592	0628
	0705	0718	0741
	0749	0817	0836
	0878	0886	0929
			1169

3.2 (continued)	1177	1195	1248
1262	1292	1301	1320
1322	1444	1536	1701
1740			
3.3 <u>Phytoplankton</u>		0001	0002
0075	0079	0085	0108
0292	0367	0409	0452
0482	0535	0537	0738
0909	1061	1062	1065
1073	1196	1222	1296
1341	1357	1414	1476
1538	1596	1597	1598
1700			
3.4 <u>Nannoplankton</u>		0568	0941
0942			
3.5 <u>Productivity</u>		0367	0368
0443	0741	1213	1386
1538			

4. BENTHICS

4.1 <u>General</u>		0008	0069	0076
0109	0182	0215	0480	
0483	0587	0678	0695	
0906	0997	1022	1166	
1173	1229	1250	1251	
1295	1831	1843		
4.2 <u>Zoobenthos - systematics and</u>				
<u>development</u>		0029	0136	
0176	0186	0191	0200	
0201	0279	0286	0304	
0305	0330	0337	0345	
0349	0372	0406	0411	
0412	0510	0538	0548	
0553	0569	0596	0611	
0646	0657	0673	0677	
0679	0683	0709	0726	
0731	0767	0768	0769	
0772	0773	0774	0804	
0827	0831	0832	0833	
0881	0882	0883	0901	
0926	0961	0962	0993	
1037	1039	1041	1045	
1104	1128	1135	1141	
1142	1195	1224	1247	
1305	1365	1405	1456	

4.2 (continued)	1531	1578	1713
1773	1774	1781	1794
1802	1814	1815	1821
1835	1928	1942	
4.3 <u>Zoobenthos - distribution and</u>			
<u>ecology</u>	0011	0074	0083
0084	0138	0139	0146
0202	0224	0251	0286
0346	0347	0349	0401
0406	0415	0416	0457
0495	0510	0511	0512
0519	0520	0552	0569
0596	0623	0632	0651
0658	0679	0683	0731
0759	0768	0769	0770
0777	0804	0813	0827
0831	0832	0878	0913
0914	0926	0938	0957
0962	0979	0993	1017
1032	1040	1041	1044
1060	1089	1102	1104
1134	1147	1171	1172
1230	1233	1235	1240
1244	1273	1289	1292
1299	1305	1314	1334
1380	1415	1436	1490
1508	1515	1519	1521
1531	1545	1560	1579
1622	1636	1639	1649
1768	1773	1774	1846
1847	1867	1869	1928
1942			
4.4 <u>Zoobenthos - physiology and</u>			
<u>behaviour</u>	0037	0045	0087
0093	0098	0110	0159
0187	0201	0257	0260
0262	0293	0294	0323
0344	0345	0348	0350
0378	0422	0463	0468
0473	0484	0488	0504
0519	0521	to	0526
0532	0540	0544	0562
0599	0607	0608	0615
0631	0633	0645	0661
0674	0675	0739	0746
0747	0759	0777	0797

4.4 (continued)	0020	0840	0915
0988	0994	1000	1024
1039	1040	1052	1070
1086	1087	1111	1117
1135	1151	1191	1220
1234	1307	1309	1339
1348	1349	1458	1462
1484	1531	1541	1568
1569	1610	1639	1698
1707	1716	1717	1764
1807			
4.5 <u>Phytobenthos</u>	0016	0126	
0160	0182	0220	0272
0273	0275	0292	0313
0336	0375	0391	0407
0410	0424	0449	0509
0560	0581	0582	0583
0640	0643	0666	0686
0708	0743	0766	0776
0837	0851	0891	0902
0909	0910	0933	0934
0995	1005	1013	1027
1042	1043	1100	1111
1113	1124	1139	1142
1185	1241	1266	1311
1312	1370	1371	1378
1400	1409	1413	1436
1439	1440	1447	1450
1516	1524	1533	1534
1546	1547	1600	1603
1608	1619	1634	1642
1711	1712	1748	1784
1793	1816	1823	1826
1851			

5. FISHING

5.1 <u>Statistical returns</u>			0031
0068	0264	0265	0326
0545	0576	0672	0792
1060	1069	1178	1179
1184	1255	1277	1278
1379	1689		
5.2 <u>Vessels</u>	0267	0268	0335
0793	0794	0812	1048
1564	1940		

5.3 <u>gear</u>	0010	0053	0054	0103
	0105	0365	0426	0458
	0502	0555	0556	0557
	0570	0663	0667	0733
	0700	0873	0903	0922
	1018	1232	1337	1421
	1513	1564	1604	1615
	1647	1667	1670	1697
	1778	1871	1874	1878
	1885	1889		

5.4 <u>Grounds and fishing surveys</u>				
	0043	0081	0134	0152
	0174	0263	0309	0341
	0414	0435	0445	0446
	0533	0576	0637	0644
	0681	0866	0944	0964
	1047	1092	1093	1118
	1168	1184	1187	1199
	1200	1231	1276	1279
	1426	1431	1455	1480
	1616	1617	1618	1620
	1621	1681	1708	1746
				1879
	1881	1887	1893	1898
	1901	1905	1908	1909
	1914	1916	1922	1930
	1931	1939		

5.5 <u>Fish technology</u>		0404	0481
	0486	0794	0830
	0852	0889	1345
	1396	1543	1742
5.6 <u>Economics of fishing</u>			0491
	1170	1179	1187
			1606

6. AQUATIC STOCKS

6.0 <u>General biology</u>		0003	0032
	0371	0374	0447
	0649	0715	0716
	0910	1029	1049
	1110	1125	1128
	1133	1155	1215
	1355	1360	1407
	1491	1505	1509
	1629	1648	1729
	1759	1762	1769
			1770

6.0 (continued) 1772 1829 1859
 1918 1919 1937
 6.1 Systematics 0012 0021 to
 0027 0100 0101 0102
 0129 0153 0163 0189
 0261 0317 0332 0370
 0403 0431 0432 0459
 0575 0580 0590 0591
 0620 0638 0669 0696
 0723 0762 0763 0809
 0863 0908 0924 0937
 0981 0990 0999 1036
 1046 1153 1154 1210
 1225 1228 1324 1356
 1375 1467 1473 1494
 to 1499 1529 1540
 1555 1557 1577 1590
 1613 1652 1653 1655
 1721 1727 1734 1749
 1751 1780 1782 1803
 1811 1841 1842 1853
 1864 1882 1902

6.2 Distribution and ecology

0013 0015 0027 0033
 0050 0051 0077 0080
 0088 0118 0149 0156
 0157 0188 0198 0209
 0238 0301 0320 0360
 0383 0430 0431 0448
 0455 0456 0542 0558
 0559 0614 0618 0639
 0694 0704 0737 0778
 0786 0823 0838 0841
 0859 0864 0879 0911
 0920 0927 0928 0952
 0981 0982 0986 0989
 0992 1007 1016 1025
 1028 1055 1072 1074
 1085 1105 1137 1144
 1152 1153 1175 1183
 1197 1204 1205 1206
 1226 1268 1300 1321
 1328 1340 1353 1377
 1383 1416 1424 1441
 1448 1453 1460 1483
 1499 1504 1529 1536

6.2 (continued) 1559 1574 1587
 1588 1605 1611 1633
 1635 1640 1714 1737
 1765 1780 1791 1806
 1819 1820 1836 1860
 1870 1934 1935 1943

6.3 Physiology and behaviour

0004
 0007 0009 0035 0036
 0041 0042 0047 0056
 0057 0060 0062 0073
 0096 0097 0121 0137
 0141 to 0144 0153
 0154 0155 0164 0168
 to 0171 0173 0181
 0183 0192 0196 0207
 0208 0210 0220 0223
 0227 0237 0247 0252
 0255 0258 0266 0277
 0278 0290 0293 0300
 0302 0303 0308 0317
 0318 0321 0322 0339
 0373 0395 0444 0454
 0471 0485 0492 0517
 0518 0543 0574 0586
 0601 0602 0605 0609
 0612 0613 0635 0648
 0659 0662 0665 0668
 0676 0682 0684 0687
 0688 0689 0692 0694
 0698 0712 0721 0722
 0729 0730 0737 0740
 0757 0758 0761 0798
 0803 0805 0814 0819
 0826 0828 0835 0845
 0848 0849 0850 0860
 to 0863 0874 0877
 0889 0893 0899 0907
 0911 0915 0916 0917
 0921 0923 0925 0937
 0954 0959 0978 0985
 0987 1003 1018 1030
 1055 1057 1106 1108
 1129 1131 1143 1159
 1161 1162 1163 1192
 1193 1207 1211 1212
 1216 1246 1249 1256

6.3 (continued)	1257	1270	1271
	1274	1291	1293
	1319	1336	1352
	1373	1388	1391
	1394	1396	1398
	1403	1404	1418
	1458	1463	1464
	1468	1470	1502
	1528	1530	1552
	1571	1572	1583
	1602	1606	1607
	1632	1638	1650
	1655	1692	1693
	1702	1703	1720
	1743	1752	1757
	1777	1789	1790
	1797	1807	1818
	1825	1839	1845
	1854	1873	1929

6.4 Parasites, diseases,
abnormalities

	0017	0038
0091	0246	0325
0434	0464	0578
0606	0717	0750
0752	0753	0785
0850	0868	0869
0957	0990	1033
1136	1194	1198
1230	1253	1346
1411	1474	1485
1521	1706	1723
1801	1804	1805

6.5 Stock fluctuations and
population studies

	0018
0030	0058
0127	0145
0288	0296
0359	0362
0381	0387
0394	0401
0433	0450
0501	0513
0622	0636
0667	0691
0707	0756
0821	0844

6.5 (continued)	0885	0886	0890
	0918	0959	0986
	1019	1121	1122
	1133	1156	1163
	1265	1301	1315
	1328	1338	1354
	1384	1385	1400
	1426	1432	1446
	1481	1503	1506
	1532	1561	1607
	1624	1626	1627
	1650	1666	1671
	1723	1758	1767
	1799	1819	1820
	1834	1855	1875
	1910		

6.6 Selection by fishing gear

1482

6.7 Marking

	0114	0116	0119
	0147	0148	0233
	0270	0271	0289
	0737	0765	0884
	1094	1119	1382
	1501	1668	1728
	1868	1876	1877
	1903	1929	

6.8 Fisheries for particular species

<u>or groups</u>	0018	0019	0020
	0028	0048	0052
	0145	0248	0282
	0400	0432	0445
	0482	0565	0595
	0728	0732	0742
	1056	1076	1101
	1128	1130	1167
	1330	1402	1407
	1551	1580	1630
	1759	1808	1830
	1870	1880	1913
	1917	1926	1928

6.9 Hatcheries, aquaria, culture

	0081	0082	0086
	0115	0117	0120
	0212	0217	0232
	0254	0255	0274
	0287	0306	0331

6.9 (continued)	0377	0389	0405
0493	0506	0508	0517
0541	0593	0600	0629
0642	0660	0664	0736
0745	0766	0782	0802
0824	0840	0847	0875
0895	0905	0935	0936
0980	1001	1002	1075
1078	1084	1091	1093
1095	1103	1120	1145
1146	1165	1176	1183
1188	1189	1236	1243
1245	1258	1286	1297
1303	1310	1323	1351
1389	1399	1401	1406
1419	1420	1445	1468
1475	1478	1492	1493
1503	1510	1522	1539
1542	1543	1553	1563
1591	1592	1593	1623
1645	1673	1674	1677
1678	1689	1690	1714
1738	1754	1769	1788
1858	1875	1891	1921
1923	1925	1932	1933

7. MISCELLANEOUS AND AUXILIARIES

7.1 Mathematical and statistical

<u>methods</u>	0094	0095	0107
0641	0671	0697	0853
0887	1023	1063	1066
1107	1174	1203	1263
1350	1376	1747	1750

7.2 General

0005	0055	0061
0064	0071	0089
0111	0130	0161
0193	0221	0269
0298	0307	0311
0334	0340	0353
0392	0399	0402
0439	0460	0470
0480	0495	0496
0527	0539	0550
0585	0597	0626
0699	0701	0734

7.2 (continued)	0795	0811	0815
0821	0822	0829	0946
0948	0955	0958	0960
0967	0996	1021	1116
1123	1156	1201	1208
1209	1214	1219	1254
1329	1331	1367	1381
1412	1430	1443	1487
1512	1515	1527	1562
1573	1581	1631	1672
1710	1722	1735	1736
1745	1750	1753	1755
1817	1838	1871	1872
1886	1892	1895	1917
1911	1924		

7.3 Special bibliographies

0140	0352	0479	0516
0610	0744	0816	0876
0948	1097	1237	1472
1544	1680	1696	

7.5 Terminology, notation,

<u>definitions</u>	0706	1170
1350		

7.6 Legislation

0216	0239
0243	1679
1682	1798
1848	

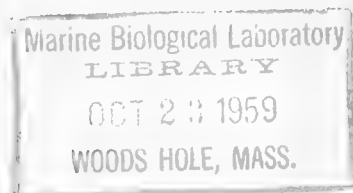
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571043	Co 571044	
571213	Le 570368	
571370	Co 571371	
571384	Co 571385	
571556	Re 570727	
571574	Re 571770	
571635	Re 571770	
571650	Re 571770	
571708	Co 571709	
571771	Re 571770	
571940	Le 570335	
581063	Re 570476	
581887	<u>En</u> 570132	
581889	<u>En</u> 570133	

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HR:hr

M

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FAO:glk

F

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SJH:sjh

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Report on aquarium experiments.

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Description of the quantitative and qualitative changes in the lakes between 1933 and 1955.		Methods and results of an experiment in which artificial substrata, immersed for 12 weeks at a depth of 45 feet (ca 14 m) below mean sea level, were periodically examined in situ by aqualung diving, as well as in the laboratory.	

FAO:tl

MF

FAO:wad

M

Alderdice, D.F. and J.R. Brett (1957) <u>J.Fish.Res.Bd Can.</u> , 14:783-95 Some effects of kraft mill effluent on young Pacific salmon	570009	Aleev, Iu.G. (1957) <u>Vop.Ikhtiolog.</u> , 8:55-76 Kharakteristika i topografiia funktsii plavnikov ryb (Characteristics and functional topography of the fins of fish)	570012
Sockeye salmon underyearlings (<u>Oncorhynchus nerka</u>) were exposed to various concentrations of full-bleach kraft mill effluent under experimental conditions simulating those anticipated in the estuary of the Sornass River at the head of Alberni Inlet, B.C.		Centre of gravity determination, and calculation of an index of agility of fish of various species and ages and compositions within and between species; proposal of four hydrodynamic zones of the body of a fish and description of representative species in terms and the characteristics of these species.	

FAO:glk

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FAO:glk

MF

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SJH:efa

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East

Altan, H. (1957) 570023
Balık Balıkçılık, 5(2):21-3
Karadeniz balıklarının pelâjic yumurta
ve lârvalarının tâyin anahtarı: 1.
Uskumru balığı - Scomber scombrus L.
(A key to pelagic eggs and larvae of
the Black Sea fishes: 1. Scomber scombrus L.)

Brief review of investigations made,
with a determination key for eggs and
larvae of sp.

MF

SJH:efa

M

Altan H. (1957) 570021
Balık Balıkçılık, 5(10):20-3
Karadeniz balıklarının pelâjic yumurta
ve lârvalarının tâyin anahtarı:
6A - Karadenizin çaça (şprot) balığı -
Sprattus sprattus phalericus Risso,
Sardalya balığı-Sardina pilchardus
sardina Günther (A key to pelagic
eggs and larvae of the Black Sea fishes:
6A - Sprattus sprattus phalericus,
Sardina pilchardus sardina)

Illustrated.

SJH:sjh

M

Altan, H. (1957) 570024
Balık Balıkçılık, 5(4):19-21
Karadeniz balıklarının pelâjic yumurta
ve lârvalarının tâyin anahtarı: 2.
Palamut balığı - Sarda sarda (A
key to pelagic eggs and larvae of the
Black Sea fishes: 2. Sarda sarda)

Content as per title.

SJH:efa

M

Altan, H. (1957) 570025
Balık Balıkçılık, 5(5):15-6
 Karadeniz balıklarının pelâjik yumurta
 ve lârvalarının tâyin anahtarı: 3.
 Karadeniz hamsi balığı - Engraulis
encrasicholus ponticus (A key to
 pelagic eggs and larvae of the Black
 Sea fishes: 3. Engraulis encrasicholus
ponticus)

Content as per title.

SJH:efa

M

Alverson, F.G. and 570028
 D.M. Shimada (1957)
Bull. Inter-Amer. trop. Tuna Comm., 2(2):
 25-79
 A study of the eastern Pacific fishery
 for tuna bait fishes, with particular
 reference to the anchoveta (Cetengraulis
mysticetus)

Briefly describes the origin and develop-
 ment of the bait fishery important for
 tuna fishing (Neothunnus macropterus and
Katsuwonus pelamis), its operations,
 extent and yield, and discusses some
 aspects of the effects of exploitation
 on the Eastern Pacific bait fish
 populations.

HR:hr

M

Altan, H. (1957) 570026
Balık Balıkçılık, 5(7):16-7
 Karadeniz balıklarının pelâjik yumurta
 ve lârvalarının tâyin anahtarı: 4.
 Orkinos veya ton balığı - Thunnus
thynnus (Linn) (A key to pelagic
 eggs and larvae of the Black Sea fishes:
 4. Thunnus thynnus (Linn))

Content as per title.

SJH:efa

M

Amar, R. (1957) 570029
Bull. Inst. océanogr. Monaco, 1100:1-9
Gnathostenetroides laodicense nov. gen. nov.
 sp. Type nouveau d'asellota et classifi-
 cation des isopodes asellotes
 (Gnathostenetroides laodicense nov. gen.
 nov. sp. New type of asellota and
 classification of isopods asellots)

A taxonomic study of the organisms
 collected on the coast of Syria.

FAO:hr

M

Alvarez del Villar, J. et al. (1957) 570027
Com. para el Fomento de la Piscic. rural,
Mexico, 62 p.
 Los peces del Valle de Mexico (The
 fishes of Mexico Valley)

Historical review of ichthyological
 studies in the region; taxonomic key
 to and description of the spp.,
 principally of the genera Cyprinus,
Carassius, Notropis, Algansea, Evarra,
Salvelinus, Salmo, Girardinichthys,
Chirostoma, Lepomis, and Micropterus.
 Ill., with morphometric data,
 distribution and habitat; discussion of
 origins and relations of this fauna.

HR:sjh

F

Ancellin, J. (1957) 570030
Sci. Pêche, 43:1-10
 Considérations sur les harengs du sud de
 la Mer du Nord et de la Manche orientale
 (Considerations on herrings from the
 south of the North Sea and the eastern
 English Channel)

Contains information on races, migrations,
 spawning and stock characteristics.

FAO:hr

M

Anderson, A.W. and 570031
E.A. Power (1957)
Statist.Dig.U.S.Fish Wildl.Serv.,
(39), 374 p.
Fishery statistics of the United States,
1954

MF

Anderson, W.W. and 570034
J.W. Gehringer (1957)
Spec.sci.Rep.U.S.Fish Wildl.Serv., (210)
Physical oceanographic, biological and
chemical data - South Atlantic coast of
the United States. 'THEODORE N. GILL'
cruise 3

Biological methods and procedures;
narrative account of cruise; explanation
of data sheets and tables; tables.

GLK:glk

M

Anderson, W.W. (1957) 570032
Fish.Bull.,U.S., 57(119):397-414
Early development, spawning, growth and
occurrence of the silver mullet (Mugil
curema) along the south Atlantic coast
of the United States

Contents as per title.

FAO:glk

MF

Andreu, B. and 570035
J. dos Santos Pinto (1957)
Invest.pesq., 6:3-38
Características histológicas y biométricas
del ovario de sardina (Sardina pil-
chardus Walb.) en la maduración, puesta
y recuperación. Origen de los ovocitos
(Histological and biometrical character-
istics of sardine ovaria during ripening,
spawning and recovering)

Description (well illustrated) of the
microscopic and macroscopic changes of
the gonad during ripening, spawning and
recovering; with notes on the mechanism
of spawning and on the renewal of the
reserve ovocytes.

FAO:glk

M

Anderson, W.W. (1957) 570033
Fish.Bull.,U.S., 57(120):415-25
Larval forms of the fresh-water mullet.
(Agonostomus monticola) from the open
ocean off the Bahamas and South Atlantic
coast of the United States

First record of this species from open
ocean. Larvae described and their
anatomical characters compared with
comparable-sized young of Mugil curema
and M. cephalus. The suggestion is made
that A. monticola is catadromous.

FAO:glk

F

Andreu, B. and 570036
J. dos Santos Pinto (1957)
Notas Estud.Inst.Biol.Marit., 17:1-27
Características histológicas y biométricas
del ovario de sardina (Sardina pil-
chardus Walb.) en la maduración puesta y
recuperación. Origen de los ovocitos
(Histological and biometric characteristics
of the sardine ovary (Sardina pilchardus
Walb.) during ripening, spawning and
recovering. Origin of the ovocytes)

A review is made of present knowledge on
histological changes in sardine ovaria,
accompanying ripening, spawning and recov-
ering. The authors prove histologically
that every female pilchard is able to
spawn many times in the same spawning season.

FAO:lr

M

Andrews, J.D. (1957) 570037
Proc.Nat.Shellf.Ass., 46(1955):140-54
 Trapping oyster drills in Virginia. I.
 The effect of migration and other factors
 on the catch

The relative importance of migratory and
 resident populations of drills in the
 predation of oysters, particularly on
 small plots, is unresolved. One year of
 trapping on a three-acre plot on abandon-
 ed public grounds suggested that
 considerable migration occurred. Eupleura
 was much more abundant than Urosalpinx
 in the catches.

FAO:hr

MF

Anraku, M. (1957) 570040
Bull.Fac.Fish.Hokkaido, 7(1):1-16
 Some experiments on the variability of
 horizontal plankton hauls and on the
 horizontal distribution of plankton in a
 limited area

Deals with the variability of catches in
 horizontal tows with fish-larva net and
 in high-speed tows with handy underway
 plankton catcher, and with a preliminary
 observation whether the distribution of
 planktonic animals is statistically
 random or non-random in a limited area.

FAO:sjh

M

Andrews, J.D. and 570038
 W.G. Hewatt (1957)
Ecol.Monogr., 27(1):1-25
 Oyster mortality studies in Virginia. II.
 The fungus disease caused by Dermocysti-
dium marinum in oysters of Chesapeake
 Bay.

Description of incidence geographically
 and seasonally; relation of infection
 with age and source of oysters;
 experimental infection; examination of
 the relation of infection with
 temperature, salinity, handling and
 other factors; discussion of the
 importance of this organisms as cause of
 disease.

GLK:glk

M

Aoyama, T. (1957) 570041
Bull.Jap.Soc.sci.Fish., 22:679-84
 (On the regeneration of the teleost scale,
 with special reference to the yellow sea
 bream, Taius tumifrons). Ni En

From consideration of regenerated scales
 percentage variation at each age $\sqrt{6.8\%}$
 at 0 and I, 3% about one year/ from
 sample of 263 fish taken in East China,
 11/51-10/52, concludes cause of falling
 off of scales is physiological rather
 than mechanical.

SJH:sjh

M

Anichini, C. (1957) 570039
Bull.Inst.oceanogr.Monaco, 1098:1-10
 Ricerche di biologia marina nei mari
 circostanti la Sardegna (Marine
 Biological Research in the seas
 surrounding Sardinia)

A quantitative and qualitative study of
 the Gulf of Cagliari plankton variations.

FAO:hr

M

Applegate, V.C., J.H. Howell 570042
 and A.E. Hall, Jr. (1957)
Spec.sci.Rep.U.S.Fish Wildl.Serv.,
 (207):157 p.
 Toxicity of 4,346 chemicals to larval
 lampreys and fishes

Report on screening tests made in search
 for chemicals toxic to Petromyzon marinus
 and also tested on Salmo gairdneri and
Lepomis macrochirus.

GLK:wad

F

Ariav, Y. (1957) 570043
Fish.Bull., Haifa, (14):16-7
(Summary of a pelagic fishery season).
Iw

SJH

M

Arnold, J.R. and 570046
E.C. Anderson (1957)
Tellus, 9:28-32
The distribution of carbon-14 in nature

The carbon-14 activity of oceanic materials indicates that the mixing half-time for carbon between the atmosphere and ocean surface waters is one or two decades, while the turnover time for the ocean as a whole is several hundred years.

FAO:jra

M

Armstrong, F.A.J. (1957) 570044
J.Mar.biol.Ass.U.K., 36:509-17
The iron content of sea water

A method, suitable for routine use, of determining total iron in sea water is described. Tests of the method, collection and storage of samples and the variability of results are described. Iron contents of water samples from the English Channel and the Bay of Biscay are reported.

GLK:hr

M

Aronson, L.R. (1957) 570047
In "The Physiology of Fishes". Vol. II
Behaviour. Edited by M.E. Brown, Academic Press Inc., Publishers, New York, pp. 271-304
Reproductive and parental behaviour

FAO

MF

Arnold, D.C. (1957) 570045
J.Mar.biol.Ass.U.K., 36(1):121-8
The response of the limpet, Patella vulgata L., to waters of different salinities

Patella vulgata gives a positive response to splashing with sea water or water of high salinity, and a negative response to fresh water or water of low salinity. The intensity of the positive response broadly corresponds with the salinity of the water used. A positive response is given to NaCl solutions of concentrations approximately equivalent to sea water, while a supra-normal response is given to concentrations somewhat above that of sea water.

HR:hr

M

Arora, H.L. and 570048
S.K. Banerji (1957)
Indian J.Fish., 4(1):80-91
Flying-fish fishery along the Coromandel coast

Estimate of total catch by sampling method; length-frequency, sex-ratio, and maturity and stomach contents, of the Cypsilurus coromandelensis catch.

GLK:glk

M

<p>Arrhenius, G., M.N. Bramlette 570049 and E. Picciotto (1957) <u>Nature, Lond.</u>, 180:85-6 Localization of radioactive and stable heavy nuclides in ocean sediments</p> <p>Occurrence of ionium, thorium, radium, uranium and other rare elements in different types of marine deposits.</p> <p>GLK:tl M</p>	<p>Artüz, M.I. (1957) 570052 <u>Balık Balıkçılık</u>, 5(10):1-6 1957 Ağustosunda palamut durumu (The bonito situation in August 1957)</p> <p>Turkish catches; weight, length relation.</p> <p>SJH:sjh M</p>
<p>Artüz, I. (1957) 570050 <u>Balık Balıkçılık</u>, 5(3):21 Türkiye sularında ilk defa tesbit edilen bir balık türü: <u>Trichiurus</u> <u>lepturus</u> (Linne) (A new fish species caught in Turkish sea waters: <u>Trichiurus lepturus</u> (Linne))</p> <p>Reports the catch and reviews the biology and distribution of sp.</p> <p>SJH:efa M</p>	<p>Artüz, M.I. (1957) 570053 <u>Balık Balıkçılık</u>, 5(4):15-9 Elektrik akımı ile balıkçılık. I. (Electro-fishing. I.)</p> <p>A popular article reviewing principles of fishing by electric shocker.</p> <p>SJH:efa M</p>
<p>Artüz, I. (1957) 570051 <u>Balık Balıkçılık</u>, 5(7):1-6 Akdeniz faunasının menşei hakkında (The origin of the Mediterranean fauna)</p> <p>A feature article about the different species of fish living in the Mediterranean.</p> <p>SJH:sjh M</p>	<p>Artüz, M.I. (1957) 570054 <u>Balık Balıkçılık</u>, 5(5):17-21 Elektrik akımı ile balıkçılık. II. (Electro-fishing. II.)</p> <p>A popular article reviewing methods of fishing by electric shocker.</p> <p>SJH:efa MF</p>

Artüz, M.I. (1957) 570055

Balık Balıkçılık, 5(6):1-4

Balıkçılık biyolojisi ve problemleri
(Fishery biology and its problems)

The author describes the problems met
by fishery biologists and gives
examples concerning Turkish seas and
lakes.

SJH:sjh

MF

Asami, T. (1957) 570058

Rep.Nankai reg.Fish.Res.Lab., 5:74-83

(Annual variation of species composition
of fishes migrating along the coast of
Nankai region of Japan). Ni En

Analysis of yearly and monthly catch
distributions of Sardinops melanosticta,
Etrumeus micropus, Engraulis japonica
and mackerels and horse mackerels.

FAO:sjh

M

Artüz, M.I. (1957) 570056

Balık Balıkçılık, 5(2):7-10

Balıklarda üreme. I. (The procreation
process in fishes. I.)

A popular article on the manner of
reproduction.

SJH:efa

MF

Asami, T. and M. Hanaoka (1957) 570059

Rep.Nankai reg.Fish.Res.Lab., 5:59-73

(On the variation of vertebral number of
Iwashi, with special reference to its
possibility of being a clue for testing
difference of races or of environmental
conditions during their development).
Ni En

Analysis of data for 1949-55 from coastal
stations, Nankai region, in relation to
environmental conditions. Autumn and
spring broods distinguished, and
therefore growth identified up to 10 cm,
after which mixing occurs.

FAO:sjh

M

Artüz, M.I. (1957) 570057

Balık Balıkçılık, 5(3):6-10

Balıklarda üreme. II. (The
procreation process in fishes. II.)

A popular article on the manner of
reproduction.

SJH:efa

MF

Asami, T., F. Kamiura 570060

and T. Yokota (1957)

Rep.Nankai reg.Fish.Res.Lab., 5:38-58

(Research on spawning of Iwashi fishes,
with special reference to that of
anchovy in 1953, in Hyuga Nada).
Ni En

Results of monthly collections regarding
horizontal distributions.

FAO:sjh

M

Ashby, A.W. (1957) 570061

J.agric.Econ., 12:262-82

The future pattern of food consumption
in the United Kingdom

Includes comment on pattern of fish
consumption; followed by discussion.

FAO:sjh

MF

Assman, A.V. (1957)

570062

Zool.Zh., 36(6):900-7

(On the role of microorganisms as a source
of food for the young fish). Ru

Experiments on the feeding of hydrolysis
yeasts Candida and Torulopsis utilis to
the young of Acipenser guldenstadtii
Brandt, and of Torulopsis utilis and the
Azotobacter chroococcum to young Guppyi
sp., Xiphophorus sp., and Macropodus sp.
Change of weight and mortality during the
experimental period were taken as
indicators of the results of the
experiments.

FAO:glk

F

Associazione per lo Sviluppo 570064

dell'Industria nel Mezzogiorno (1957)

Roma, 1957, 122 p.

I laghi salsi della Sardegna (The
salt lakes in Sardinia)

M

Atlantic States Marine

570065

Fisheries Commission (1957)

New York, 94 pp.

Fifteenth annual report of the Atlantic
States Marine Fisheries Commission

Administrative report with notes on
research work in progress.

FiB:glk

MF

Association Internationale de 570063

Limnologie Théorique et
Appliquée. Section Française (1957)

Vie et Milieu, 8(1):99-108

Compte rendu des séances de travail -
Banyuls, 14-17 Mai 1956 (Proceedings
of the work sessions)

Contains the records of the meeting
encompassing discussions on technical
activities.

FAO:hr

F

Audouin, J. (1957)

570066

Fish.Ind., Moscow, 21:357-75

Note préliminaire sur l'hydrologie de
l'Étang de Thau (Preliminary note on
the hydrology of Thau pond). Ru

Geographic situation and meteorological
conditions of the pond; diurnal and
annual variations in hydrological
conditions, and comparison with other
ponds.

FAO:glk

M

Austin, T.S. (1957) 570067
Spec.sci.Rep.U.S.Fish Wildl.Serv.,
(217):186 p.

Summary, oceanographic and biological
data, Marquesas Islands, area, August-
September, 1956 (Equapac)

570069
(Card 2)

"Ekman" grab. Treatment of catch;
tests in Black Sea.

GLK

M

FAO:sjh

M

Australia. Commonwealth Bureau 570068
of Census and Statistics (1957)
Canberra, 18 p.

Statistical Bulletin Fishing and
Whaling, Australia No. 2, 1955-56

Gives for years 1951-56 quantities
and values of catches of fishes,
crustaceans, molluscs, pearl and
trochus shell, and whales; boats
and equipment in use, men employed;
loaves granted.

:sjh

MF

Bachmann, R.W. (1957) 570071
Progr.Fish Cult., 19(1):44-6
Professionalism in fishery biology

Review (based primarily on a question-
naire sent to the 48 U.S. states) of
the opportunities for fishery biologists
to act as consultants for owners of
private waters or to manage these
waters.

WAD:wad

F

Bacescu, M. (1957) 570069
Bul.Inst.Cerc.piscic.Roman., 16(2):
69-82

Apucatorul-sonda pentru studiul
cantitativ al organismelor de fund -
un aparat mixt pentru colectarea
simultana a macro- si microbentosului
(A grab for quantitative study of
organisms living in deep waters -
a new apparatus for the simultaneous
capture of macro- and microbenthos).
Ru Fr

Illustrated description of design
and use of a modified and improved

Backus, R.H. and 570072
H. Barnes (1957)
Deep-Sea Res., 4:116-9
Television echo-sounder observations
of midwater sound scatterers

Simultaneous observations with echo-
sounders and underwater television
have been made both in and out of
deep scattering layers. The type of
echo record and its relation to the
number of fish scattering the sound
was observed.

FAO:tl

MF

Baerends, G.P. (1957) 570073
 In "The Physiology of Fishes". Vol.II.
 Behaviour. Edited by M.E. Brown, Academic
 Press Inc., Publishers, New York, pp.229-69
 The ethological analysis of fish
 behaviour

Baker, A. de C. (1957) 570076
Deep-Sea Res., 4:126-9
 Underwater photographs for the study of
 oceanic squid

A technique for photographing squid at
 great depths has been developed, which
 allows the species and size to be
 determined. Those photographed so far
 appear to be the same species as are
 commonly seen at the surface.

FAO

MF

FAO:tl

M

Bahamonde, N.N. (1957) 570074
Invest.zool.chil., 3:119-21
 Sobre la distribución geográfica de
Lysiosquilla polydactyla Von Martens, 1881
 (Crustacea, Stomatopoda) (On the
 geographic distribution of L. polydactyla)

It is extended from Hoste Island, Tierra
 del Fuego far north to Maullin, near
 Chiloe Island.

Balakrishnan, V. (1957) 570077
Curr.Sci., 26:57-8
 Occurrence of larvae and young mackerel
 (Rastrelliger canagurta Cuvier) off
 Vizhinjam, near Trivandrum (Lett)

Catches made 1955 and 1956 show spawning
 time and place, and evidence of growth
 of young mackerel

FiB:hr

M

FAO:sjh

M

Bainbridge, R. (1957) 570075
Biol.Rev., 32:91-115
 Size, shape and density of marine phyto-
 plankton concentrations

Reviews data obtained from surface
 observations; intensive sampling with
 automatic recorders; discusses the role
 that might be played by wind-induced
 water movement in shaping the observed
 patterns of distribution.

Balarama Murty, C. (1957) 570078
Curr.Sci., 26:80
 Water-masses of the Western Central Bay
 of Bengal during November

FAO:glk

M

FAO

M

Ballantine, D., and B.C. Abbott (1957) 570079
J.gen.Microbiol. (Symposium on plankton),
16:274-81
Toxic marine flagellates: their
occurrence and physiological effects on
animals

World distribution of marine "red tides",
their economic importance (damage), and
the physiological effects of Gymnodinium
veneficum on higher organisms.

FiB:tl

M

Bard, J. (1957) 570082
Bull.franç.Piscic., 29:136-46
Le développement, l'évolution et l'avenir
de la pisciculture au Cameroun (The
development, evolution and future of fish-
culture in the Cameroons)

A review of fishculture practices in
the Cameroons.

FAO:hr

F

Banarescu, P. (1957) 570080
Bul.Inst.Cerc.piscic.Roman., 16(2):36-45
Raspindirea si rolul biologic al
guvizilor din complexul Razelm
(Distribution and biological role of
gobies in the Razelm lagoon complex).
Ru Fr

Significance of Gobius syrman, G. fluvia-
tilis, Pomatoschistus microps leopardinus
and other spp., as food of larger fish,
especially "sandres".

FAO:sjh

MF

Barnard, J.L. and D.J. Reish (1957) 570083
Science, 125(3241):236
First discovery of marine wood-boring
copepods

Five species of wood-boring harpacticoid
copepods belonging to the genera Tisbe,
Amphiascus, and an unknown genus were
isolated from test blocks in California.

FAO:hr

M

Barca, Gh. (1957) 570081
Agro-Silvica de Stat. Bucuresti, 550 p.
Hidroamelioratii piscicole (Hydro-
graphic improvement in fisheries)

Barnes, H. (1957) 570084
Oikos, 8:1-15
The northern limits of Balanus balanoides
(L.)

The northern limits of this and other
barnacles, and also some littoral
molluscs, may be correlated with the
summer limits of the ice pack, the effect
of the latter being indirect through
severity of conditions and the time
available for nauplius release and
settlement.

F

FAO:jae

M

Barnes H. and 570085

G.H. Hasle (1957)

Nytt.Mag.Bot., 5:113-23

A statistical examination of the distribution of some species of dinoflagellates in the polluted inner Oslo Fjord

A statistical analysis of the numbers of dinoflagellates in collections taken under varying conditions in the polluted Oslo Fjord in July 1948. The variability of samples at a single station and over wide areas with respect to several species are considered.

FAO:tl

M

Barsukov, V.V. (1957) 570088

Vop.Ikhtiol., 8:28-50

Rasprodelenie zubatok (*Anarhichas lupus*, *A. minor* i *A. latifrons*) v Barentsovom more (Distribution of the dogfish (*Anarhichas lupus*, *A. minor* and *A. latifrons*) in the Barents Sea)

Analysis of statistics of catch (absolutely and per unit effort) of these species by months, locality and depth, with data on size and other biological characteristics in an investigation of reproduction and migration.

FAO:glk

M

Barrett, P.H. (1957) 570086

Limnol.Oceanogr., 2:287-94

Potassium concentrations in fertilized trout lakes

Describes experiments in Michigan (USA) lakes designed to determine if biological productivity could be increased by application of commercial fertilizers.

HR:wdc

F

Bartlett, M.S. (1957) 570089

Biometrika, 44(1-2):27-42

On theoretical models for competitive and predatory biological systems

A review of the mathematical theories.

FAO:sjh

MF

Barrington, E.J.W. (1957) 570087

J.Mar.biol.Ass.U.K., 36(1):1-16

The distribution and significance of organically bound iodine in the ascidian *Ciona intestinalis* Linnaeus

Some features of the organization of the endostyle of *Ciona intestinalis* are described followed by a description of the distribution of iodine within the pharynx, intestine and testes, and a comparison of the endostyle of *Ciona* and that of the ammocoete.

HR:hr

M

Batham, E.J. (1957) 570090

Aust.J.Sci., 19(3):87-91

History of the Portobello Marine Biological Station

GLK

M

<p>Bauer, O.N. (1957) 570091 <u>Vop.Ikhtiol.</u>, 8:179-87 Epizooticheskoe sostoianie ryb v prudovykh khoziaistvakh SSSR i ocherednye zadachi bor'by s parazitarnymi zabolevaniami v nikh (The epizootic condition of fish in pond economy of U.S.S.R. and alternative problems in the prevention of parasitic diseases among them)</p> <p>Tabulation of the diseases of carp observed in farm ponds in various regions of U.S.S.R. with discussion of outbreaks and control measures adopted and recommendations for a campaign.</p> <p>FAO:glk F</p>	<p>Becker, W.A. (1957) 570094 <u>Biometrics</u>, 13:549-50 Computing mortality in experiments with irrelevant deaths</p> <p>Abstract of paper presented at Meeting of Biometric Society and American Institute of Biological Science, 27-28/8/57; notes on arithmetic method of correcting experimental mortality data for deaths due to causes other than those being investigated.</p> <p>SJH:sjh MF</p>
<p>Beadle, L.C. (1957) 570092 <u>Annual Review of Physiology</u>, 329-58 Osmotic and ionic regulation in aquatic animals</p> <p>F</p>	<p>Bolotov, G.M. and 570095 P.V. Ushakov (1957) <u>C.R.Acad.Sci.U.R.S.S.</u>, 112:137-40 (Certain regularities in the quantitative distribution of bottom fauna in Antarctic waters). <u>Ru</u></p> <p>Quantitative distribution of benthos with the depth; the quantitative occurrence of different taxonomical groups within different depth ranges in the Antarctic and comparison with the northern seas of Russia.</p> <p>:tl M</p>
<p>Becker, P. (1957) 570093 <u>Nature, Lond.</u>, 180:559-60 Changes in response to light stimuli of the larvae of <u>Culicoides circumscriptus</u></p> <p>Behaviour with respect to light varies with hunger. This is useful in determining types of material on which larvae feed.</p> <p>FAO:glk F</p>	<p>Bellis, E.D. (1957) 570096 <u>Copeia</u>, (2):85-9 The effects of temperature on salientians breeding calls</p> <p>A study of the relations of air and water temperature with the number of calls produced in a given time interval (frequency of call) and to the lengths of the individual calls of <u>Pseudacris nigrita triseriata</u>, <u>P. clarki</u>, <u>P. streckeri</u>, and <u>Bufo terrestris charlesmithi</u>.</p> <p>HR:hr F</p>

<p>Bennett, G.W. and W.F. Childers (1957) J.Wildlife Mgmt., 21(4):414-24 The smallmouth bass, <u>Micropterus dolomieu</u>, in warm-water ponds</p> <p>Growth, mortality and reproduction in 12 representative ponds. Population sizes, feeding habits.</p> <p>FAO:sjh F</p>	<p>Ben-Tuvia, A. (1957) Fish.Bull., Haifa, (14):18-9 (Meet your fish). <u>Iw</u></p> <p>Figures of and notes on <u>Trachurus trachurus</u>, <u>Siganus rivulatus</u>, <u>Dicentrarchus punctatus</u>, <u>Sarpa salpa</u>, <u>Hippocampus guttulatus</u>, <u>Nerophis maculatus</u> and <u>Stromateus fiatola</u>.</p> <p>SJH:sjh M</p>
<p>Bennett, M.F., J. Shriner and R.A. Brown (1957) Biol.Bull.Wood's Hole, 112(3):267-75 Persistent tidal cycles of spontaneous motor activity in the fiddler crab, <u>Uca pugnax</u></p> <p>Laboratory study on the frequency and intensity of spontaneous locomotor activity of the crab.</p> <p>FAO:tl M</p>	<p>Ben-Tuvia, A. (1957) Fish.Bull., Haifa, (11):16-7 (Meet your fish). <u>Iw</u></p> <p>Illustrations of and short notes on <u>Caesiomorus glaucus</u>, <u>Rhinobatus cemiculus</u>, <u>Coris julis</u>, <u>Pleroplatca altavela</u>, <u>Argentina sphyraea</u>, <u>Scyliorhinus canicula</u>, <u>Oxynotus centrina</u>, <u>Chlorophthalmus agassizi</u> and <u>Capros aper</u>.</p> <p>SJH:sjh M</p>
<p>Benoit, R.J. (1957) Limnol.Oceanogr., 2:233-40 Preliminary observations on cobalt and vitamin B₁₂ in fresh water</p> <p>The cobalt, copper, and iron contents of a vertical series of water samples from Linsley Pond are given. The proportions of the total cobalt tied up in vitamin B₁₂ in the epi- and hypolimnion are estimated.</p> <p>HR:tl F</p>	<p>Ben-Tuvia, A. (1957) Fish.Bull., Haifa, (13):18-22 (Meet your fish). <u>Iw</u></p> <p>Illustrations with short notes on <u>Myliobatis</u>, <u>Squatina</u>, <u>Merolepis</u>, <u>Strongylura</u>, <u>Echelus</u>, <u>Syngnathus Murenophis</u>.</p> <p>SJH:sjh M</p>

<p>Bon-Yami, M. (1957) 570103 <u>Fish.Bull., Haifa, (13):22-4</u> (Construction of the Italian trawl net from machine-made webbing). <u>Iw</u></p> <p>Illustrated account.</p> <p>SJH:sjh M</p>	<p>Berkeley, E. and C. Berkeley (1957) 570106 <u>Can.J.Zool.</u>, 35:573-8 On some pelagic polychaeta from the north-east Pacific north of latitude 40°N. and east of longitude 175°W.</p> <p>Two species (<u>Otopsis longipes</u> Ditlevsen and <u>Epidiopatra hupferiana</u> Augener) new to the Pacific Ocean and four new to it north of latitude 40°N. (<u>Phalocrophorus pictus</u> Greef, <u>Plotohelmis tenuis</u> Apstein, <u>Tomopteris cavallii</u> Rosa, and <u>Travisiopsis lobifera</u> Levinson) are recorded. Four others, one of which (<u>Typhloscolex mülleri</u> Busch) was taken at a more northerly latitude in the northeast Pacific than previously, are also listed. FAO:hr M</p>
<p>Bon-Yami, M. (1957) 570104 <u>Fish.Bull., Haifa, (14):4-9</u> (The International Fishing Gear Congress in Hamburg). <u>Iw</u></p> <p>A report.</p> <p>SJH:sjh MF</p>	<p>Berkson, J. (1957) 570107 <u>Biometrics</u>, 13(1):28-34 Tables for the maximum likelihood estimate of the logistic function</p> <p>Gives theory and tables for fitting logistic curve to observed data of bio-assay, etc.</p> <p>SJH:sjh MF</p>
<p>Benyamini, D. (1957) 570105 <u>Fish.Bull., Haifa, (14):31-2</u> (An experiment in enlarging the opening of the trawl net on the FMV DROR). <u>Iw</u></p> <p>Incl. ill. of gear.</p> <p>SJH:sjh M</p>	<p>Bernard, F. (1957) 570108 <u>Bull.Soc.Hist.nat.Afr.N.</u>, 48(5-6):378-84 Présence dans la Mer Morte (Israël) d'un plancton unicellulaire de type méditerranéen (Presence in the Dead Sea (Israel) of a unicellular planktonic organism of the Mediterranean type)</p> <p>Water samples from the western shores of the Dead Sea were found very rich in <u>Coccolithus fragilis</u> and <u>Exuviella marina</u> predominant in the Mediterranean.</p> <p>:hr M</p>

Bernhard, M. (1957) 570109 <u>Pubbl.Staz.zool.Napoli</u> , 29:80-95 Culture of sea urchins, <u>Arbacia lixula</u> , in artificial and natural sea water by means of ion exchange and chelating agents	Berthois, L. and 570110 R. Brenot (1957) <u>Rev.Trav.Inst.Pêches marit.</u> , 21:425-7 Note préliminaire sur la topographie du talus du plateau continental dans le golfe de Gascogne (Preliminary note on the topography of the talus of the continental shelf in the Gulf of Gascony)
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Borrill, N.J. (1957) 570110 <u>Sci.Amer.</u> , 197(6):118-25 The indestructibel Hydra An illustrated report on recent research on regeneration of this coelenterata.	Berthois, L. and 570113 R. Brenot (1957) <u>Rev.Trav.Inst.Pêches marit.</u> , 21:431-4 Topographie sous-marine de l'"Outer Silver Pit" et du "Markhams Hole" Lat.N.54° Long.E.Gr.2° (Submarine topography of the "Outer Silver Pit" and of "Markhams Hole" Lat.N.54° Long.E.Gr.2°) Comparison of existing charts with results of an écho-sounding survey and presentation of a new chart.
FAO:sjh	FAO:glk
Borrill, N.J. and 570111 J. Borrill (1957) <u>Dodd, Mead, New York</u> , 305 pp. Questions answered about the seashore	Berzins, B. (1957) 570114 <u>Skr.sverig.FiskFören.</u> , Årsskrift 1956,: 77-80 Märkning av gäddor med fenklippning. 4 (Marking fish by fin-clipping). En Review of the method with special emphasis on fin regeneration.
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<p>Berzinš, B. (1957) 570115 <u>Svensk FiskTidskr.</u>, 66(12):185-90 Fiskevård och nya fiskarter (Fisheries management and new fish species)</p> <p>Review of the transplantation of foreign fish species in various parts of the world and the results of these transplantations.</p> <p>FAO:tl MF</p>	<p>Best, E.A. (1957) 570116 <u>Calif.Fish Game</u>, 43(1):97-8 Recent occurrences of the red brotula, <u>Brosmophycis marginata</u> (Ayres), in California waters</p> <p>List of specimens, with positions found, dates, and some measurements.</p> <p>HR:sjh M</p>
<p>Berzinš, B. (1957) 570116 <u>Svensk FiskTidskr.</u>, 66:28-31 Märkning av gäddor med fenklippning (Tagging pikes by cutting the fins)</p> <p>Investigations on the regeneration of fins.</p> <p>FAO:tl F</p>	<p>Best, E.A. (1957) 570119 <u>Calif.Fish Game</u>, 43(2):147 Tagged dover sole (<u>Microstomus pacificus</u>) at liberty six years</p> <p>Fish with Peterson-disk tag recaptured within 25 miles of position released in 6/50 of month of Mad River, California.</p> <p>WAD:sjh M</p>
<p>Berzinš, B. (1957) 570117 <u>Vandringsfisk.Medd.</u>, 2:10 pp. (Investigations on natural fish ponds, No. 9. On the loss of fish and the guarding of ponds). <u>Sv</u></p> <p>Results of the investigation on the loss of fish from the ponds due to fish- eating birds. Half-monthly values on pH, temperature, oxygen, iron, KMnO_4 consumption, plankton, etc., are also given for the ponds.</p> <p>TL:tl F</p>	<p>Bethke, W. (1957) 570120 <u>Idaho Wildl.Rev.</u>, 10(2):6-7 Distribution and release of hatchery fish</p> <p>A popular account of methods utilized in Idaho with special reference to trout.</p> <p>WAD:wad F</p>

<p>Bhattacharyya, R.N. (1957) 570121 <u>Mar.Res.</u>, (3):15 p. The food and feeding habits of larval and post-larval herring in the northern North Sea</p> <p>Stomachs and intestines of 2521 larval and post-larval herring taken in the Moray Firth, Cromarty and Fair Isle areas were examined from collections made in April, August, September, October and November, 1952. Light plays a very important part in the feeding, and larval and post-larval herring feed very little after darkness and start feeding with daybreak. Attempt made to estimate rate of digestion of copepods, copepod eggs, lamellibranch and gastropod larvae.</p> <p>FAO:sjh M</p>	<p>Bhimachar, B.S. (1957) 570124 <u>Curr.Sci.</u>, 26:208 Prof. Basant Kumar Das</p> <p>An obituary. Worked on air-breathing fishes and was associated with organization of Hyderabad Fisheries Department.</p> <p>FAO:sjh F</p>
<p>Bhattacharyya, R.N. (1957) 570122 <u>Proc.nat.Inst.Sci.India</u>, 23(3)A:191-8 Wave resistance in deep water due to the accelerated motion of a pressure system</p> <p>The wave resistance of the waves produced by the uniformly accelerated motion of a pressure system over the undisturbed surface of deep water has been worked out theoretically. The resistance has been divided into three components, one representing the direct effect of acceleration and two others the uniform motion of a pressure system.</p> <p>FAO:tl M</p>	<p>Bhimachar, B.S., S.K. Banerji 570125 and G. Venkataraman (1957) <u>Indian J.Fish.</u>, 4(1):1-19 A study of the variability in the fish catches taken by successive hauls in the inshore waters off Calicut</p> <p>Analysis of the variance of numbers in catches between hauls, zones and dates for all hauls, and between dates, hauls and species for each of the four zones.</p> <p>GLK:glk M</p>
<p>Bhavanarayana, P.V. and 570123 E.C. La Fond (1957) <u>Indian J.Fish.</u>, 4(1):75-9 On the replenishment of some plant nutrients during the upwelling period on the east coast off India</p> <p>Discussion of silicate and phosphate profiles with relation to wind movement and water circulation.</p> <p>GLK:glk M</p>	<p>Bidwell, R.G.S. (1957) 570126 <u>Canad.J.Res.(Bot.)</u>, 35(6):945-50 Photosynthesis and metabolism of marine algae - I. Photosynthesis of two marine flagellates compared with <u>Chlorella</u></p> <p>The products of photosynthesis of two marine flagellates have been examined and compared with those of <u>Chlorella pyrenoidosa</u> with the use of radio-active carbon and chromatographic techniques.</p> <p>FAO:tl MF</p>

Biogler, P.(Comp.) (1957) 570127
Fischwar.u.Feinkostindustr., 29(8):129-30
Jahreszeitliches Vorkommen des Herings im
Nord-Atlantik (Seasonal appearance
of herrings in the North Atlantic)

Stages of maturity and size composition
of Clupea harengus from January to
December.

FAO:hr

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Bieri, R. (1957) 570128
Pacif.Sci., 11(3):255-64
The Chaetognath fauna off Peru in 1941

Describes the distribution of the
following species in the surface water
of the Peru coastal current: Sagitta sp.
S. bedoti, S. californica, S. ferox,
S. neglecta, S. tenuis, S. regularis,
S. robusta, S. enflata, S. hexaptera,
S. lyra, S. minima, S. pacifica,
Krohnitta pacifica and Pterosagitta draco.

FAO:hr

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Billings, W.D. (1957) 570130
Annu.Rev.Pl.Physiol., 8:375-92
Physiological ecology

Birkett, L. (1957) 570131
Fisheries Laboratory Lowestoft, Mimeo, 4 p.
Certain regularities in the quantitative
distribution of bottom fauna in Antarctic
waters

English translation of 570095.

Fib

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Bigelow, H.R. and W.C. Schroeder (1957) 570129
Bull.Mus.comp.ZoolHarv., 117(1):150 p.
A study of the sharks of the suborder
Squaloidea

Review of systematics of this group, with
diagnostic keys.

Birkett, L. (1957) 570132
Fisheries Laboratory Lowestoft, Mimeo, 6 p.
Interstitial waters of the Pacific Ocean
and adjoining seas

English translation of 581887.

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| <p>Birkett, L. (1957) 570133
 <u>Fisheries Laboratory Lowestoft, Mimco 2 p.</u>
 On the fecundity of the Barents Sea capelin

 English translation of 581889.</p> | <p>Birshtein, Ia.A. (1957) 570136
 <u>Zool.Zh., 36(7):961-83</u>
 O nekotorykh osobennostiakh ul'traabissal'noi fauny na primere roda <u>Storothyngura</u> (Crustacea Isopoda Asellota) (Certain peculiarities of the ultra-abyssal fauna, as for example the genus <u>Storothyngura</u> (Crustacea Isopoda Asellota))

 Description of 6 new species of the genus <u>Storothyngura</u> from the Kurile-Kamchatka, Japan and Aloutian trenches.</p> |
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| <p>Birkhoff, C. (1957) 570134
 <u>Bremerhaven, Nordwestdeutscher Verlag Ditzien, 166 p.</u>
 Seefischerei in Gegenwart und Zukunft. Probleme, Methoden und Fahrzeuge der Weltfischerei mit fischereitechn. Lexicon (Sea fisheries at present and in the future. Problems, methods and vessels of the world fisheries with technological dictionary)</p> | <p>Bishop, M.W.H. and 570137
 C.R. Austin (1957)
 <u>Endeavour, 16:137-50</u>
 Mammalian spermatozoa

 Includes reproduction of Retzius' illustration of spermatozoon of pilot whale, <u>Globiocephalus melaena</u>.</p> |
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GLK:sjh

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| <p>Birman, I.B. (1957) 570135
 <u>Vop.Ikhtiolog., 8:3-7</u>
 Kuro-sio i chislennost' amurskoi osennoi kety (The Kuroshio and the quantity of oceanic Amur salmon)

 Discussion of the catch of this species, supported by reference to the catch of sardines, in relation to cyclical changes in average level of water temperature.</p> | <p>Bishop, M.W.H. and 570138
 D.J. Crisp (1957)
 <u>Nature, Lond., 179:482-3</u>
 The Australasian barnacle, <u>Elminius modestus</u>, in France

 <u>Elminius modestus</u> is established over two large areas of the French coast extending from the Belgian frontier to Cap de la Hague and from the estuary of the Yandy to the Rode de Brest.</p> |
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FAO:glk

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Bishop, M.W.H. et al. (1957) 570139
Bull.Inst.océanogr.Monaco, 1099:1-12
 Sur l'écologie des Cirripèdes de la côte atlantique française (On the ecology of the Cirripeds of the French Atlantic coast)

A study of distribution and abundance of Elminus modestus, Chthamalus stellatus, Balanus balanoides, B. improvisus, B. cre-natus, B. eburneus, B. amphitrite var. denticulata, B. perforatus, V. strömia, Pollicipes cornucopiae.

FAO:hr

M

Black, E.C. (1957) 570142
J.Fish.Res.Bd Canada, 14:645-9
 Alterations in the blood level of lactic acid in certain salmonoid fishes following muscular activity - II. Lake trout, Salvelinus namaycush

During the summer of 1954, 1½-year-old hatchery-raised trout, Salvelinus namaycush were subjected to 15 minutes of severe muscular exercise at the trout hatchery at Summerland, B.C. Following exercise, fish were allowed to recover for various intervals up to 24 hours. Blood samples were taken and analyzed.

GLK:glk

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Bishop, Y. et al. (1957) 570140
Bull.Fish.Res.Bd Can., 110:207 p.
 Index and list of titles, publications of the Fisheries Research Board of Canada 1901-1954

Black, E.C. (1957) 570143
Rev.canad.Biol., 16(4):468-9
 Mortality in two-year old Sockeye salmon, Oncorhynchus nerka, following severe muscular exercise

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Black, E.C. (1957) 570141
J.Fish.Res.Bd Canada, 14(2):117-34
 Alterations in the blood level of lactic acid in certain salmonoid fishes following muscular activity - I. Kamloops trout, Salmo gairdneri

The present investigation was undertaken in order to describe the recovery pattern from the elevated level of lactic acid in the blood. Observations were also made upon the blood glucose level during recovery. In addition, the rate of increase of the blood lactic acid level with exercise; the effect of moderate exercise; the effect of varying oxygen levels in the respired water; and a preliminary study on the effect of temperature on increased lactic acid level in the blood.

GLK:glk

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Black, E.C. and 570144
 I. Barrett (1957)
Canad.Fish Cult., 20:13-24
 Increase in levels of lactic acid in the blood of cutthroat and steelhead trout following handling and live transportation

Experiments with Salmo clarki and S. gairdneri.

FAO:wad

F

Blackburn, M. (1957) 570145
Aust.J.Mar.Freshw.Res., 8:29-54
The relation between the food of the
Australian barracouta, Thyrsites atun
(Euphrasen), and recent fluctuations in
the fisheries

10,000 stomach analyses; geographical
variations; relation of feeding to
availability to coastal fishermen.

GLK:sjh

M

Blair, A.A. (1957) 570148
J.Fish.Res.Bd Canada, 14(2):135-40
Salmon tagging at Francis Harbour Bight,
Labrador

Tagging of Salmo salar.

GLK:glk

M

Blacker, R.W. (1957) 570146
Fish.Invest., Lond., Ser.II., 20(10)
Benthic animals as indicators of hydro-
graphic conditions and climatic change
in Svalbard waters

A brief account is given of the past
benthos work in the area (1878-1931).
Detailed charts of the distribution of the
selected species from past and present
records are given, and the differences
between the past and present distribution
of the indicator species have been used
to show how hydrographic conditions have
changed in recent years.

FAO:sjh

M

Blair, W.F. (1957) 570149
In "Vertebrates of the United States" by
W.F. Blair et al. McGraw-Hill Book
Company, Inc., pp. 615-774
Part VI. Mammals

Includes aquatic forms.

FAO:sjh

MF

Blair, A.A. (1957) 570147
J.Fish.Res.Bd Canada, 14(2):141-4
Salmon tagging at Cape Charles, Labrador

Tagging of Salmo salar.

Blair, W.F. et al. (1957) 570150
McGraw-Hill Book Company, Inc., 819 p.
Vertebrates of the United States

A manual for the identification of all
known vertebrates through taxonomic keys,
check lists, descriptions, and ranges.
Geographic coverage is limited to the
continental United States and its adjacent
waters excluding marine fishes and turtles.

GLK:glk

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FAO:sjh

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Blanchard, D.C. and
A.H. Woodcock (1957)
Tellus, 9(2):145-58
Bubble formation and modification in the
sea and its meteorological significance

570151

It is believed that the vast majority of
the airborne salt nuclei arise from
bursting bubbles at the air-sea water
interface. Four natural mechanisms for
the production of these bubbles have
been studied.

FAO:tl

M

Bleakney, S. (1957).
Copeia, (2):141-2
The egg-laying habits of the salamander,
Ambystoma jeffersonianum

570154

A critical review of W.T. Stille (1954,
Copeia (4):300), with account of
observations on the egg-laying phenomenon
of this sp. in Canada.

HR:efa

F

Blanko, W. (1957)
Krögers Buchdruckerei, Hamburg -
Blankenese, 600 p.
Die Seefischerei Nordwest-Europas
(Sea fisheries of Northwestern Europe)

570152

Bleakney, S. (1957)
Copeia, (2):143
A snapping turtle, Chelydra serpentina
serpentina, containing eighty-three eggs

570155

Records specimen taken in Quebec with
83 fully formed eggs in oviducts.

M

HR:efa

F

Blaxter, J.H.S. (1957)
Mar.Res., (1):15 p.
Herring Rearing-III. The effect of
temperature and other factors on myotome
counts

570153

Counts of myotomes have been made on
herring larvae of different parentage
and 'race', hatched out in the laboratory
at different incubation temperatures
ranging from 5.1°C to 14.68°C. Counts
were made to the anus and to the end of
the body.

FAO:sjh

M

Bleakney, S. and
F. Cook (1957)
Copeia, (2):142-3
Additional records of the four-toed
salamander, Hemidactylium scutatum, from
Nova Scotia

570156

Content as per title.

HR:efa

F

Bleakney, S. and F. Cook (1957) 570157
Copeia, (2):143
Two erythristic Plethodon cinereus from
Nova Scotia

Reports capture of two adult specimens
of this color phase.

HR:efa

F

Blum, J.L. (1957) 570160
Hydrobiology, 9(4):361-405
An ecological study of the algae of the
Saline River, Michigan

Quantitative and qualitative records for
1951-53 of physico-chemical environmental
factors relating to algal communities
growth in relation to zones of minor
pollution.

FAO:sjh

F

Blewitt, M. (1957) 570158
MacGibbon and Kee, London 1957, 168 p.
Surveys of the seas - A brief history
of British hydrography

A selection of manuscripts (working maps)
of the coastal hydrographic surveys,
giving an historical review and develop-
ment of the methods of surveying and
mapping the coasts.

FAO:tl

M

Blythe, H.J. (1957) 570161
Chem.Engng Min.Rev., 49(8):59-62
Safe disposal of radioactive wastes

MF

Blower, J.G. (1957) 570159
Nature, Lond., 180:560
Feeding habits of a marine centipede

Scolioplanes maritimus observed feeding
at night on Balanus balanoides and
Littorina saxatilis.

GLK:jac

M

Boden, B.P. and 570162
E.M. Kampa (1957)
Pacif.Sci., 11:229-35
Records of bioluminescence in the ocean

Account of observations on bioluminescence
in deep water and effect of moonlight on
vertical distribution of luminescent
organisms off Oahu and San Diego.

FAO:efa

M

Böhlke, J. and 570163
D.M. Cohen (1957)
Copeia, (2):159-60
The eastern Pacific species of Callionymus

Callionymus garthii is synonymized with C. atrilabiatus and the geographic range of the species is extended from Colombia to the Gulf of California.

HR:hr

M

Bogen, H. (1957) 570166
Norsk Hvalfangsttid., 46:489-501
Main events in the history of Antarctic exploration

FAO

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Böhlke, J.E. and 570164
Ch.C.G. Chaplin (1957)
Science, 125(3243):353
Oral incubation in Bahaman jawfishes
Opisthognathus whitchursti and O. maxillosus

Account of the capture of an adult with eggs held in its mouth and of subsequent aquarium observations of this individual establishing that it nursed the eggs until incubation.

FAO:glk

M

Boguslavskii, S.G. (1957) 570167
C.R.Acad.Sci.U.R.S.S., 115(3):494-6
Zavisimost' koeffitsienta turbulentnosti ot parametrov morskikh voln (The dependence of the turbulence factor on the sea wave parameters)

M

Böhnecke, G. (1957) 570165
Dtsch.hydrogr.Z., 10:33-8
Die ozeanographischen Arbeiten im Internationalen Geophysikalischen Jahr (IGJ) (Oceanographic operations in the International Geophysical Year (IGY))

Programmes: mean sea level; long waves; deep sea circulation; multiple ship measurements; and polar front survey.

FAO:tl

M

Bolst, A.L. and 570168
A.H. Whiteley (1957)
Biol.Bull.Wood's Hole, 112(3):276-87
Studies of the metabolism of phosphorus in the development of the sea urchin, Strongylocentrotus purpuratus

The quantity of phosphorus in the barium-soluble, alcohol-soluble fraction of the acid-soluble phosphate compounds of sea urchin embryos, Strongylocentrotus purpuratus (Simpson), was measured until the formation of the early pluteus stage.

FAO:glk

M

<p>Bolster, G.C. and J.P. Bridger (1957) <u>Nature, Lond.</u>, 179:638 Nature of spawning area in herrings</p> <p>Spawn found in fish stomachs and with a grab. It was attached to flints. Maximum concentration found in an area two miles by four hundred yards wide, the long axis being in line with tidal movement.</p> <p>FAO:jae M</p>	<p>Bordovskii, O.K. (1957) 570172 <u>C R.Acad Sci.U.R.S.S.</u>, 116:443 Sostav organicheskogo veshchestva sovremennykh osadkov Beringova moria (The composition of organic matter in the recent sediments of the Bering Sea)</p> <p>Chemical analysis is carried out in view of determining the contents of organic carbon, nitrogen, humic and bituminous substances. Relation to granulometric composition is also studied.</p> <p>FAO:go M</p>
<p>Bondi, A., A. Spandorf and R. Calmi (1957) 570170 <u>Bamidgeh</u>, 9(1):13-8 The nutritive value of various feeds for carp</p> <p>Results of comparative analysis of feed and faeces of 3 specimens of carp in aquarium experiments are discussed.</p> <p>SJH:sjh F</p>	<p>Boroughs, H., S.J. Townsley, and R.W. Hiatt (1957) 570173 <u>Limnol.Oceanogr.</u>, 2(1):28-32 The metabolism of radionuclides by marine organisms. III. The uptake of calcium-45 in solution by marine fish</p> <p>The uptake of calcium-45 dissolved in sea water, by <u>Tilapia mossambica</u>, and the distribution of this element in the various tissues of the fish, were measured. These results are compared with those of a similar experiment with radiostrontium.</p> <p>HR:glk "</p>
<p>Bondy, P.K., G.V. Upton and G.E. Pickford (1957) 570171 <u>Nature, Lond.</u>, 179(4574):1354-5 Demonstration of cortisol in fish blood</p> <p>Demonstration, by paper chromatography, of a steroid in the plasma of <u>Cyprinus carpio</u> and <u>Pseudopleuronectes americanus</u>.</p> <p>GLK:glk MF</p>	<p>Borrel, A. (1957) 570174 <u>L'Institut des hautes études de Tunis</u>, 85 p. Les pêches sur la côte septentrionale de Tunisie (Fisheries off the northern coast of Tunisia)</p> <p>Describes the general conditions of the fisheries, their evolution, and the different fisheries.</p> <p>FAO:hr M</p>

Boschetti, M.M. (1957) 570175
Sanitalk, 5(2):21-5
A study in the chemical control of aquatic
vegetation

F

Bossolasco, M. and 570178
I. Dagnino (1957)
Geofis.pur.appl., 37:318-24
Sulla turbolenza delle correnti marine
nello stretto di Messina (On the
turbulence of currents in the Strait of
Messina)

M

Boschma, H. (1957) 570176
Ann.Zool.,Agra., 2:(1):1-20
Heterosaccus Indicus, sp.nov., a rhizo-
cephalan parasite of the crab Portunus
pelagicus (L.)

The new species differs from the
previously described species of the
genus in having the cavities of the
right and left testes communicating
with each other. Some peculiarities
of the previously described species
are noted.

:hr

M

Bossolasco, M. and 570179
I. Dagnino (1957)
Geofis.pur.appl., 38
Sulle correnti costiere nel golfo di
Genova (On the coastal currents in
the Gulf of Genoa)

M

Bossolasco, M., A. Cavo 570177
and I. Dagnino (1957)
Geofis.pur.appl., 38
Sulla genesi dei microsismi (On the
genesis of microseisms)

M

Bourassa, R. (1957) 570180
Actualités mar., 1:13-4
Un inventaire de nos rivières à saumons
(An inventory of our salmon rivers)

An account of the survey of some 77
Atlantic salmon (Salmo salar) rivers
with tabulation on their drainage area
and condition.

FAO:glk

F

Bourlière, F. (1957) 570181
In "The biology of ageing", by Yapp, W.B.
and G.H. Bourne (Ed.), Symp.Inst.Biol.,
(6):27-34
Ageing and metabolism

Includes discussions of relations
between growth rates and mortality in
fishes, molluscs and crustacea with
specific reference to Thymallus signifer,
Gastorosteus aculeatus, Clupea pilchardus,
Patella vulgata, Moina macrocopa and
Daphnia magna.

GLK:sjh

MF

Bowers, A.R. (1957) 570184
Rep.Mar.biol.Sta.Pt Erin, 69:18-20
Age and size of Manx herring in 1956

Market sample analysis, Clupea harengus,
15/6-21/9/56.

FAO:sjh

M

Boury, M. and J. Borde (1957) 570182
Sci.Pêche, (51):9 p.
Méthodes d'examen bactériologique de
l'eau de mer et des coquillages. Essais
comparatifs (Methods of
bacteriological examination of the
sea water and molluscs. Comparative
analysis)

Gives the results of bacteria of
molluscs investigations carried out
during three years at the Fisheries
Institute.

FAO:hr

M

Bowman, T.E. (1957) 570185
Proc.U.S.nat.Mus., 107(3382):39-45
A new species of Calanopia (Copepoda:
Calanoida) from the Caribbean Sea

M

Bowers, A.B. (1957) 570183
Nature, Lond., 179:926
Nature of the spawning area in herrings

Points out that herring spawn has been
taken by dredge, grab and a modified
tow netting technique. See 1957, Nature,
179:638.

FAO:jae

M

Bowman, T.E. (1957) 570186
Proc.U.S.nat.Mus., 107(3378):7
A new species of Mysidopsis (Crustacea:
Mysidacea) from the southeastern coast
of the United States

GLK

M

Boycott, B.B. (1957) 570187

New Sci., 2(47):12-3

An octopus lays eggs at London Zoo

Short illustrated review of reproduction behaviour and ecology of octopi, occurrence and egg-deposition in aquaria, occasioned by recent observations of this event in Octopus vulgaris. Hatching has yet to be observed.

FAO:sjh

M

Boyd, A.W. (1957)

570188

Brit.Birds, 50:253-63

Sewage farms as bird habitats.

Ecological notes on the various habitats afforded by sewage farms, and on the preferences shown by different species. (Includes a section on Nottingham Sewage Farm by Dr. R.J. Rainos).

:jae

F

Bragg, N.A. (1957)

570189

Copeia, (1):36-9

Variation in colors and color patterns in tadpoles in Oklahoma

Tadpoles of most species tend genetically to have a characteristic coloration which may, however, be slightly or greatly modified by environmental influence.

HR:hr

F

Brannon, H.R. et al. (1957) 570190

Trans.Amer.geophys.Un., 38(5):643-50

Radiocarbon evidence on the dilution of atmospheric and oceanic carbon by carbon from fossil fuels

Estimations of the dilution of atmospheric carbon dioxide by carbon dioxide from fossil fuels, and the fractional part of the atmospheric carbon dioxide entering the ocean. Using these data, information is sought on mixing times in the ocean.

FAO:tl

M

Brattström, H. (1957)

570191

Publ.biol.Sta., Bergen, 19:10 p.

Branchiocerianthus norvegicus n. sp. from the Hardangerfjord, western Norway

Description of a new hydroid.

GLK:tl

M

Brebion, G., J. Chopin

570192

and F. Humbert (1957)

Chim.et Industr., 77:1110-6

Toxicity to fish (minnows) of some phenolic derivatives formed by the decomposition of lignin in paper pulp factories

Breder, C.M., Jr. (1957) 570193

Copeia, (2):132-5

A note on preliminary stages in the fossilization of fishes

Describes delayed decomposition of dead fish in aquaria, offers a tentative exploration and relates the observation to fossilization.

HR:wad

F

Bressau, S. (1957) 570194

Küste, (1):64-102

Abrasion, Transport, und Sedimentation in der Beltsee (Abrasion, transport and sedimentation in the Belt-Sea)

M

Bretschneider, C.L. (1957) 570195

Paper presented at the Thirty-Eighth

Annual Meeting, Washington, D.C.,

April 29 - May 2, 1957

Joint distribution of wave heights and lengths

M

Brett, J.R. (1957) 570196

In "The Physiology of Fishes". Vol. II. Behaviour. Edited by M.E. Brown, Academic Press Inc., Publishers, New York, pp. 121-54

The sense organs. The eye

FAO

MF

Bridges, W., J.W. Atz and 570197

E.R. Sanborn (1957)

New York, 62 p.

Guide and historical souvenir of Stage I of the New York Aquarium

MF

Briggs, J.C. and 570198

D.K. Caldwell (1957)

Bull.Fla.St.Mus., 2(4):43-51

Acanthurus randalli, a new surgeon fish from the Gulf of Mexico

Describes the species and analyses its relationships.

FAO:hr

M

British Weed Control 570199
Council (1957)
British Weed Control Council, London,
163 pp.
Weed control handbook, 1957

Includes short section (p. 86-7) on the control of aquatic weeds and algae; detailed tables of properties of herbicides, glossary of terms and a species index.

ssjh

F

Broch, H. (1957) 570202
Nature, Lond., 179:1356
The northern octocoral, *Paragorgia*
arborea (L.), in sub-Antarctic waters

Establishes this as a bipolar species at present.

GLK:jac

M

Broad, A.C. (1957) 570200
Biol.Bull., Wood's Hole, 112:144-70
Larval development of *Palaemonetes pugio*
Holthuis

Description of larval development of this sp., and its comparison with *Palaemonetes vulgaris* (Say). Variation in number and structure of larval intermolts, found in development of both spp., is mentioned.

FAO:efa

M

Broecker, W.S. (1957) 570203
Paper presented at the Thirty-Eighth
Annual Meeting, Washington, D.C.,
April 29 - May 2, 1957
Variations in the C¹⁴/C¹² ratio of Atlantic Ocean surface water

M

Broad, A.C. (1957) 570201
Biol.Bull., Wood's Hole, 112:162-70
The relationship between diet and larval
development of *Palaemonetes*

Investigation of the qualitative food requirement and molting of *Palaemonetes pugio* and *P. vulgaris*. It was found that these larvae need food which includes animal tissue. The frequency of molting and the rate of development varied according to the quantity of food available.

FAO:tl

M

Broecker, W.S., R.D. Gerard 570204
and B.C. Hoozon (1957)
Paper presented at the Thirty-Eighth
Annual Meeting, Washington, D.C.,
April 29 - May 2, 1957
Deep water circulation in the Atlantic Ocean

M

Brongersma-Sanders, M. (1957) 570205
Verh. Akad. Wet. Amst., (b); 50(6)
 On the desirability of a research into
 certain phenomena in the region of
 upwelling water along the coast of
 South West Africa

M

Brown, M.E. (1957) 570208
Academic Press, Inc., New York, 526 p.
 The physiology of fishes, 2. Behavior

Consists of authoritative reviews of the
 present state of knowledge of various
 aspects of fish physiology. Gaps in
 knowledge and possible fruitful lines
 for further research are indicated.
 Individual chapters by L.R. Aronson,
 G.P. Baerends, J.R. Brett, H.O. Bull,
 P. Doudoroff, D.L. Fox, M. Gordon,
 E. Newton Harvey, A.D. Hasler,
 E.G. Healey, F.R. Harden Jones,
 R.D. Keynes, O. Lowenstein, J.M. Odiorne.

FAO:hr

MF

Brown, H.S., J. Bonner 570206
 and J. Weir (1957)
New York, Viking Press, 193 p.
 The next hundred years: man's natural
 and technological resources; a
 discussion prepared by leaders of
 American industry

General discussion of the prospects of man
 being able to develop his technology of
 resource exploitation at a rate to match the
 rate of population increase, concluding
 that this will depend on the speed with
 which he develops his techniques of
 exploiting renewable resources; includes
 a brief reference to the possibilities
 offered by the sea.

FAO:glk

M

Brown, S.G. (1957) 570209
Nature Lond., 179(4573):1287
 Migrations of humpback whales

A note on the studies of the movements
 of the humpback whale (Megaptera
novaeangliae) in New Zealand waters.

GLK:hr

M

Brown, M.E. (1957) 570207
Academic Press, Inc., New York, 447 p.
 The physiology of fishes, 1. Metabolism

Consists of authoritative reviews of the
 present state of knowledge of various
 aspects of fish physiology. Gaps in
 knowledge and possible fruitful lines
 for further research are indicated.
 Individual chapters by F.E. J. Fry,
 G.S. Carter, J.C. Mott, E.J.W. Barrington,
 V.S. Black, J. Van Oosten, W.S. Hoar,
 S. Smith, M.E. Brown, R.M. Love,
 annotated in Curr. Bibliogr. Fish. Sci.,
 1(5) which see.

FAO:hr

MF

Brown, W.C. and 570210
 A.C. Alcalá (1957)
Copeia, (1):39-41
 Viability of lizard eggs exposed to sea
 water

Eggs of Cosymbatus platyurus, Gehyra
mutilata and Hemidactylus frenatus,
 might feasibly survive for at least
 11 days; eggs of Dasia smaragdina only
 from 3 to 5 days.

MF

Brunel, M.A. (1957) 570211
Int.hydr.Rev., 34(2):131-7
 Les systèmes de radiolocalisation dans
 l'hydrographie française (Radio-
 localisation systems in French hydro-
 graphy)

Description of equipment and operations.

FAO:glk

M

Bsharah, L. (1957) 570214
Bull.Mar.Sci.Gulf Caribb., 7(3):201-51
 Plankton of the Florida current. V.
 Environmental conditions, standing crop,
 seasonal and diurnal changes at a
 station forty miles east of Miami

This is a survey of the standing crop of
 plankton in the Florida Current, its
 vertical, seasonal and diurnal changes,
 and of relevant environmental conditions.
 The top 100 meters is considered to be
 the euphotic zone. Details are given for
 siphonophores, chaetognaths, copepods,
 euphausiids, pteropods and young fish.

FAO:glk

M

Bruschek, E. (1957) 570212
Z.Fisch., 5:289-94
 Eine Versuchsanlage zur Beobachtung von
 Fischen in fliessendem Wasser (An
 experimental plant for the observation
 of fish in running water)

Description of an oval runway to observe
 fish behaviour. The water is circulated
 by a propeller placed in the runway.

FAO:tl

F

Buchanan, J.B. (1957) 570215
Nature, Lond., 179(4560):634-5
 Benthic fauna of the continental edge off
 Accra, Ghana

Short description of one epifaunal and
 one infaunal community on muddy sand.
 Both communities are identical with
 those occurring in Western Mediterranean.

GLK:tl

M

Braun, A.F. (1957) 570213
Sci.Amer., 197(5):50-7
 Animals of the abyss

Short account, with numerous illustrations,
 of the GALATHEA expedition.

FAO:sjh

M

Bucksch, R. (1957) 570216
Öst.Wasscrw., 9:75-7
 Legal problems of international co-
 operation in the protection of streams

F

Budd, J. (1957) 570217
Canad. Fish Cult., 20:25-8
Introduction of the hybrid between the
eastern brook trout and lake trout into
the Great Lakes

Describes the first known introduction
(1954) of Salvelinus fontinalis and
S. namaycush into these waters (US and
Canadian) and subsequent recoveries.

FAO:wad

F

Bückmann, A. and 570218
G. Hempel (1957)
Helgoländ.wiss.Meeresunters., 6(1):52-70
Untersuchungen an der Heringslarven-
bevölkerung der Innenjade
(Investigations on the population of
herring fry in the Jade estuary)

Investigations of the larvae place of
origin. Correlations between the weight
and length, water temperature, and
speed of growth with the number of
vertebrae.

SJH:tl

M

Buedeler, W. (1957) 570219
UNESCO, 1957, 66 p.
L'année géophysique internationale
(The international geophysical year)

A general illustrated account of the
various projects, with short reference
to oceanography in the chapter on the
exploration of the earth.

FAO:sjh

M

Bull, H.O. (1957) 570220
In "The Physiology of Fishes". Vol.II.
Behaviour. Edited by M.E. Brown,
Academic Press Inc., Publishers,
New York, pp. 211-28
Part I. Conditioned responses

FAO

MF

Bullo, A. (1957) 570221
Agricoltura d.Venezia, 11:5-21
Nei territori vallivi del Basso Polesine,
vallicoltura o agricoltura? (In the
valleys of Low Polesine, fishculture or
agriculture?)

Discusses the difficulties and economic
problems presented by the Ministry of
Agriculture. Plans for transforming the
saltwater ponds into agricultural fields.

:glk

F

Bumpus, D.F. (1957) 570222
Spec.sci.Rep.U.S.Fish Wildl.Serv.,
(214):153 p.
Surface water temperature along Atlantic
and Gulf coasts of the United States

Tabulations of monthly and annual mean
surface water temperatures recorded
since 1878.

FAO:glk

M

Burdick, G.E. et al. (1957) 570223
N.Y. Fish Game J., 4(1):92-101
Lethal oxygen concentrations for yellow perch

F

Burkenroad, M.D. (1957) 570224
Ecology, 38:164-5
Intensity of setting of starfish in Long Island Sound in relation to fluctuations of the stock of adult starfish and in the setting of oysters
Discusses evidence on this relation in recent years.

FAO:sjh

M

Burkov, V.A. et al. (1957) 570225
Trud.Inst.Okeanol., 24:5
(Techniques of hydrographic work in the open sea). Ru

M

Burmister, C.A. (1957) 570226
Int.hydr.Rev., 34(2):121-30
L'électronique en hydrographie. I. Quelle est la profondeur de l'océan? (Electronics on hydrography. I. What is the depth of the ocean?)

Historical review with brief technical details of certain types of equipment.

FAO:glk

M

Burrows, R.E. (1957) 570227
Progr.Fish.Cult., 19(2):75
Acceleration of spawning of adult salmon

A brief report of experiments conducted and preliminary results obtained on the acceleration of spawning of Oncorhynchus nerka by exposure to periods of light.

FAO:efa

MF

Bursche, E.M. (1957) 570228
Z.Fisch., 5:211-30
Die Makrophytenvegetation thüringischer Teiche und ihre fischereiliche Bewertung (The macrophyte vegetation of Thuringian ponds and its evaluation from the fishery point of view)

Description of the floral composition of the vegetation in ponds.

FAO:tl

F

Burt, W.V. and J. Queen (1957) 570229
Science, 126:973-4
Tidal overmixing in estuaries

Discusses the processes of eddy diffusion due to tidal currents in the Coos Bay and river estuary in Oregon coast.

FAO:efa

MF

Busnita, Th. et al. (1957) 570232
Bul.Inst.Cerc.piscic.Roman., 16(2):5-19
Primele incercari de aclimatizare a coregonilor in apele R.P.R. (First notes on acclimatization of coregonids in Roumanian waters). Ru Fr

Reports results of transplanting from Poland and USSR, eggs of Coregonus albula and C. lavaretus maraenoides.

FAO:sjh

F

Busch (1957) 570230
Int.hydr.Rev., 34(2):59-63
Le "Radiolog-Atlas" appareil radio-électrique de détermination du point pour les lèves hydrographiques (Radiolog Atlas, a radioelectric apparatus for point determination in hydrographic surveys)

Account of the fundamental theory of the operation of this system and certain details concerning the system itself.

FAO:glk

M

Butler, T.H. (1957) 570233
Progr.Rep.Pacif.Cst Stas, (109):16-9
The tagging of the commercial crab in the Queen Charlotte Islands region.

Positions and numbers of tagged Cancer magister released and returned, 1952-56. Movements, growth; tag efficiency.

GLK:sjh

M

Busch, C.W. (1957) 570231
Int.hydr.Rev., 34(1):65-7
Appareil de mesure radioélectrique pour la détermination de la position dans les lèves hydrographiques au moyen de l'écho-sondeur (Radioelectric apparatus to determine the position of hydrographic soundings by means of the echo-sounder)

Gives a brief summary of the development and principles of operation of a new aid to hydrographic work.

FAO:hr

M

Buys, M.E.L. (1957) 570234
Invest.Rep.Div.Fish.S.Afr., (27):114 p.
The South African pilchard (Sardinops ocellata) - Temperature variations in the upper 50 metres in the St. Helena Bay area, September 1950 - August 1954

Account of method to establish periodic, and therefore predictable, cycles of temperature. Analysis of charts showing the temperature at the surface and at 20 metres, and the mean integral temperature of the 0-50 metres layer on an annual, seasonal and monthly basis. Variation of these temperatures in time graphically represented and analysed by month and by season using data collected on monthly survey cruises.

FAO:sjh

M

Cagle, F.R. (1957) 570235
In Vertebrates of the United States
 by W.F. Blair et al. McGraw-Hill Book
 Company, Inc., pp. 273-358
 Part IV. Reptiles

FAO

F

Caldwell, D.K. and 570238
 J.C. Briggs (1957)
Bull.Fla St.Mus., 2(1):11 p.
 Range extensions of western North Atlantic
 fishes with notes on some solos of the
 genus Gymnachirus

Contains range extensions of 15 species

FAO:hr

M

Cagniard, L. (1957) 570236
Ann.Géophys., 13(2)
 Sur la théorie de la mesure électroma-
 gnétique des courants marins (On the
 theory of electromagnetic measurements
 of currents)

M

California. Laws, statutes, 570239
 etc. (1957).
St.Paul, West Pub.Co., 374 p.
 West's California fish and game code,
 1957, Stats. 1947, c. 456, as amended at
 the 1957 regular session of the
 legislature

MF

Cairns, J., Jr. (1957) 570237
Industr.Wastes, 2:1-5
 Environment and time in fish toxicity

 Discusses the toxicity of industrial
 waste waters to fish and factors to
 be taken into consideration when
 planning bio-assay tests.

SWPa

MF

California University. Scripps 570240
 Institution of Oceanography
 (1957)
SIO Reference 57-10, 45 p.
 Physical and chemical data, CCOFI cruise
 5209 (MIR 41) 4-19 September 1952

M

<p>California University. Scripps 570241 Institution of Oceanography (1957) <u>SIO Reference 57-13</u>, 43 p. Physical and chemical data, CCOFI cruise 5210 (MIR 42) 8-22 October 1952</p> <p>M</p>	<p>Callaway, R.J. (1957) 570244 <u>Spec.sci.Rep.U.S.Fish Wildl.Serv.</u>, (230) Oceanographic and meteorological observations in the northeast and central North Pacific, July - December 1956</p> <p>M</p>
<p>California University. Scripps 570242 Institution of Oceanography (1957) <u>SIO Reference 57-22</u>, 46 p. Physical and chemical data, CCOFI cruise 5211 (MIR 43) 6-21 November 1952</p> <p>M</p>	<p>Cameron, F.E. (1957) 570245 <u>J.Fish.Res.Bd Canada</u>, 14(2):165-202 Some factors influencing the distribution of pelagic copepods in the Queen Charlotte Islands area</p> <p>Species taken are listed and discussed with reference to the role of temperature and distribution as determinants of distribution. Water circulation patterns are inferred from the plankton collections.</p> <p>GLK:glk M</p>
<p>Callahan, C.C. (1957) 570243 <u>Columbus, Ohio, Dep. of Natural Resources, Division of Water</u>, 34 p. Principles of water rights law in Ohio</p> <p>F</p>	<p>Campana-Rouget, Y. (1957) 570246 <u>Bull.Inst.franç.Afr.noire, A.Sci.nat.</u>, 19:417-73 Parasites de poissons de mer ouest- africains récoltés par J. Cadenat (Parasites to west African marine fishes, collected by J. Cadenat)</p> <p>An account of Nemertean collected; general account of the morphology of the sub-family Cuculaninae, followed by a discussion of the validity of different genera and certain species and a classification of the parasites according to host.</p> <p>FAO:glk MF</p>

Campbell, R.N. (1957) 570247
Freshw.Salm.Fish.Res.Ser., 14:7 p.
The effect of flooding on the growth
rate of brown trout in Loch Tummel

Scale studies of Salmo trutta show
changes in growth associated with
change in water level of lake. Analysis
of age and size at migration from
stream to lake and relation of this to
growth rate.

GLK:sjh

F

Canada. Fisheries Research 570250
Board (1957)
Ottawa, 195 p.
Annual report, 1956-1957, for the
fiscal year ending March 31, 1957

General account of the work of the Board
in the period under review followed by
reports on the work of each of the
biological stations, the work in
oceanography, and the work of each of
the technological stations; list of
publications and reports, and of
scientific staff. Something like this
perhaps for model; the report generally
follows this pattern.

GLK:glk

MF

Canada. Fisheries Research 570248
Board (1957)
Circ.biol.Sta.Nanaimo, 45(1)
Prospects for the 1957/58 herring
fishing season

M

Candeias, A. (1957) 570251
Notas estud.Inst.Biol.Marit., 16:1-12
Tremátodes em Acartia clausi Giesb.
(Trematodes in Acartia clausi Giesb.)

The occurrence of metacercariae of a
form of Trematode Hemiurid, presumably
Hemiurus communis Odhner, in Acartia
clausi Giesb. from the north coast of
Portugal.

FAO:hr

M

Canada. Fisheries Research 570249
Board (1957)
Ottawa, 182 p.
Annual report of the Fisheries Research
Board of Canada - 1955. En Fr

Description of activities and principal
results in fisheries biological and
technological research and oceanographical
investigations.

GLK:t1

MF

Capurro, S.L. and 570252
M. Rosenmann (1957)
Invest.zool.chil., 3:111-3
Formación de anticuerpos en Cricetus
auratus "golden hamster" (Formation
of antibodies in Cricetus auratus
"golden hamster")

A study of the sensitivity of the
golden hamster, using Bufo spinulosus
serum as antigen.

FiB:hr

F

Caraiman, Gh., (1957) 570253
Bul.Inst.Cerc.piscic.Roman., 16(2):53-60
 Observatiuni asupra ritmului de
 dezvoltare a puietului de crap de
 cultura din iazul Tataraseni - Regiunea
 Succava (Observations on the growth
 rhythm of small cultured carp in
 Tataraseni pond. - Succava Region).
 Ru Fr

Growth of Cyprinus carpio during 1954.

FAO:sjh

F

Carlin, B. and 570256
 K.B. Johansson (1957)
Vandringsfisk.Medd., (5), 4 p.
 Blanklaxmärkning på Norrbottenskusten
 (Tagging of eel on the coast of
 Norrbotten (N. Sweden))

Some data on the recovery of tagged eel.

TL:tl

M

Carlander, K.D. and 570254
 R.B. Moorman (1957)
Progr.Fish Cult., 19(2):92-4
 Some experiments in changing population
 balance in farm ponds

Discusses minnow-seine technique as an
 indicator of pond success, and trials of
 supplemental stocking, thinning with a
 seine and rotenone treatment to improve
 population balance in Iowa, USA, ponds.

Carlisle, D.B. (1957) 570257
Sci.News, Harmondsworth., 44:81-96
 Male or female?

A discussion of the sexual biology of
 hermaphrodite prawns Pandalus, Calocaris,
Hippolyte and Lysmata seticaudata, sand-
 hoppers and the worm Bonellia.

WID:wad

F

GLK:hr

M

Carlin, B. (1957) 570255
Vandringsfisk.Medd., (8), 3 p.
 Iakttagelser över tillväxten hos märkta
 laxungar vid tråguppfödning
 (Observations on the growth of tagged
 salmon smolt in hatchery)

Investigation on the competition for food
 by different size groups of salmon smolt
 and its influence on the growth.

Carlsson, G. (1957) 570258
Vandringsfisk.Medd., 3:5 p.
 Iakttagelser vid laxlek i försöksakvariet
 i Hölle 1956 (Observations on salmon
 spawning in aquarium in Hölle 1956)

Observations on spawning behaviour of
 salmon in aquarium.

TL:tl

F

TL:tl

F

<p>Carpenter, J.H. (1957) 570259 <u>Limnol.Oceanogr.</u>, 2:271-80 The determination of calcium in natural waters</p> <p>Photometric weight titration with ethylenediaminetetraacetate ion in the presence of ammonium purpurate is employed following isolation of the calcium by ion-exchange chromatography. Calcium is separated from magnesium and strontium by the use of acetyl-acetone as a complexing elutant. Samples of sea water from the Bahamas region were examined by this procedure.</p>	<p>Carthy, J.D. (1957) 570262 <u>Discovery</u>, 18(3):105-9 Polarised light and animals</p> <p>Discusses the polarisation of solar light by particles in the atmosphere and in water and the reaction of sandhopper (<u>Talitrus saltator</u>), king crab and other organisms to changes in the pattern of polarisation.</p>
<p>HR:tl M</p>	<p>FAO:glk M</p>
<p>Carpenter, J.H. and 570260 D.G. Cargo (1957) <u>Tech.Rep.Chesapeake</u>, (13):22 p. Oxygen requirement and mortality of the blue crab in the Chesapeake Bay</p> <p>Experiments on the lower limit of oxygen concentration for the existence of blue crab (<u>Callinectes sapidus</u>). Results of investigations on the cause of the abnormal local mortality of blue crab in Chesapeake Bay.</p>	<p>Cascudo, L. da C. (1957) 570263 <u>Docum.Vida rur.</u>, (11), 60 p. Jangadeiros (Raft fishermen)</p>
<p>FAO:tl M</p>	<p>FAO M</p>
<p>Carr, A. and 570261 J.W. Cronshaw, Jr. (1957) <u>Bull.Fla.St.Mus.</u>, 2(3):25-42 A taxonomic reappraisal of the turtle <u>Pseudemys alabamensis</u> Baur</p> <p>A study of intergroup relationships of the genus <u>Pseudemys</u> in the southern United States.</p>	<p>Chacko, P.I. and 570264 S. George (1957) <u>Rep.Madras Fish.Statist.</u>, (43):68 p. Fish statistics of east coast of Madras State for 1950-51</p>
<p>FLC:kr F</p>	<p>II</p>

<p>Chacko, P.I. and S. George (1957) <u>Rep. Madras Fish. Statist.</u>, (42):141 p. Fish statistics of west coast of Madras State for 1950-51</p>	570265	<p>Chapelle, H.I., and M.N. Özerdem (1957) <u>Balık Balıkçılık</u>, 5(1):14-8 Türk balıkçı tekneleri (On the Turkish fishing boats)</p> <p>An illustrated article giving the details of boat types and construction</p>	570268
M		SJH:sjh	M
<p>Chang, C.Y. (1957) <u>Science</u>, 126:121-2 Thyroxine effect on melanophore contraction in <u>Xenopus laevis</u></p> <p>An investigation of the role of thyroxine in the color control mechanisms of <u>Xenopus laevis</u>.</p>	570266	<p>Chapman, D.G. (1957) <u>Biometrics</u>, 13:548-9 Problems of estimation of wildlife mortality rates</p> <p>Abstract of paper presented at meeting of Biometric Society and American Institute of Biological Sciences, 27-8/8/57, dealing with comparison of methods involving tagging on age distribution estimation. Sources of bias in these; new formula for case where largest source of mortality is human predation.</p>	570269
FAO:hr	F	SJH:sjh	MF
<p>Chapelle, H.I. and M.N. Özerdem (1957) <u>Balık Balıkçılık</u>, 5(4):1-8 Türk balıkçı teknelerinin uygun makina güçleri (On the proper motor-powers of the Turkish fishing boats)</p> <p>A brief review of power-hull relation, with some suggestions to improve the designs of present gir-gir seiners. Incl. plans for seiners on the evolutionary stage.</p>	570267	<p>Chapman, D.G. (1957) <u>Progr. Fish. Cult.</u>, 19:182-4 An improved portable tattooing device</p> <p>Detailed description of a machine and the dyes used to mark juvenile <u>Salmo gairdneri</u> in migrant studies.</p>	570270
SJH:efa	M	WAD:wad	F

Chapman, D.W. (1957) 570271
Progr.Fish Cult., 19(2):95-6
Use of latex injections to mark juvenile
steelhead

Technique described using Salmo gairdneri.

WAD:wad

F

Charpy, B. (1957) 570274
Centre Technique Forestier Tropical,
Nogent-sur-Marne, 24 p.
Tilapia macrochir et Tilapia melano-
pleura - Leur élevage en pisciculture
(Tilapia macrochir and Tilapia melano-
pleura - Their rearing in fishculture)

Illustrated review of biology of these
spp., techniques of culture, and methods
of popularizing them. With bibliography.

FiB:sjh

F

Chapman, V.J. (1957) 570272
Bot.Rev., 23(5):320-50
Marine algal ecology

Review of the work done in marine algal
ecology by regions and by subject
matter (environmental factors, autecology
and recolonization, sublittoral surveys,
geographical distribution and nomenclature).
Extensive list of literature.

FAO:tl

M

Chator, E.H. and 570275
H. Jones (1957)
J.Ecol., 45:157-67
Some observations on Spartina townsendii
H. and J. groves in the Dovey estuary

A quadrat survey of a Welsh estuary with
discussion of significance of the species
as a pioneer and an invader of other
vegetation.

FAO:sjh

MF

Chapman, V.J. et al. (1957) 570273
Trans.roy.Soc.N.Z., 84(4):695-747
Check list of the fresh-water algae of
New Zealand

FAO

F

Chatterjee, S.K. (1957) 570276
Electro-Technol., 1:81-9
Behaviour of sea water and its constitu-
ents at ultrahigh frequencies

II

Chaudhuri, H. and 570277
K.H. Alikunhi (1957)
Curr.Sci., 26(12):381-2
Observations on the spawning in Indian
carps by hormone injection

Preliminary announcement of methods and
results.

FAO:glk

F

Chesapeake Bay Institute. The 570280
Johns Hopkins University (1957)
Data Rep., Chesapeake, (29), 29 p.
Broad creek cruise - I 12 July - 14 July
1954 - II 20 July - 22 July 1954

Tabulated temperature salinity and
current data.

FAO:tl

M

Chavin, W. (1957) 570278
J.exp.Zool., 133:259-79
Thyroid distribution and function in the
goldfish Carassius auratus

Chesapeake Bay Institute. The 570281
Johns Hopkins University (1957)
Data Rep., Chesapeake, (30), 39 p.
York river cruise - 29 July - 1 August
1954

Tabulated data on temperature, salinity,
currents, wind, weather and air
temperature.

F

FAO:tl

M

Cherbonnier, G. (1957) 570279
Vie et Milieu, 8(2):200-4
Une ophiure nouvelle de Méditerranée:
Amphiura apicula nov. sp. (A new
ophiuroid of the Mediterranean: Amphiura
apicula nov. sp.)

A taxonomic description of the species.

Chevalier, R. (1957) 570282
France Pêche, 2(10):25-7
La langouste verte. Sa pêche par les
Douarnonistes (The green lobster.
Fishing by Douarnenez fishermen)

Brief note on fishing grounds and seasons.
Types of boats, live box, crew, fish
gear and the general pattern of opera-
tions.

FAO:hr

M

FAO:glk

M

Chew, F. (1957) 570283
 Paper presented at the Thirty-Eighth
Annual Meeting, Washington, D.C.,
April 29 - May 2, 1957
 The hydrography of the Florida Gulf
 coast water

M

Chickering, A.M. (1957) 570286
Bull.Mus.comp.Zool.Harv., 116(5):301-4
 The genus Tetragnatha (Araneae, Argio-
 pidae) in Panama

F

Chew, F. and L.P. Wagner (1957) 570284
Mar.Lab.Univ.Miami, mimeo, 57-9:128
Tropical Oceanography - Semi-annual
report of investigation between the
period of 15 November 1955 to 15 May
1956

Summary of the oceanographic work off
 Florida from 15 Nov. 1955 to 15 Nov.
 1956. Analysis of the fluctuations of
 Florida current; seasonal temperature
 pattern with BT data. Oceanographic
 data given in graphic and tabular form.

FAO :tl

M

Chimits, P. (1957) 570287
Fish.Bull.F.A.O., 10(4):211-5
Tilapia in ancient Egypt

Study of inscriptions, bas reliefs and
 writing of Herodotus shows that
 Egyptians had priority in development
 of culture of fish in ponds, especially
 of T. nilotica. Catches in Nile also
 included Lates niloticus, Synodontis
bentesoda, eels, mormyre, tetraodon
 and barbel. Ill.

SJH:sjh

F

Chew, F., L.P. Wagner 570285
 and R.C. Work (1957)
Rep.Univ.Miami Mar.Lab., (57-21)
 Heat transport of the Florida current

Notes on the methods used for
 computation and results of the
 computations (tabulated and graphical)
 for heat and mass transport during
 different seasons.

FiB:tl

M

Chittleborough, R.G. (1957) 570288
 Comments upon memorandum concerning
 southern stocks of humpback whales.
 Submitted by members of the Norwegian
 Whale Research Institute to the
 Scientific Sub-Committee of the
 International Whaling Commission in
 March, 1957. Mimeo, 3 p.

A critical review of the statements
 made on the status of the stocks of
Megaptera nodosa in the southern
 hemisphere.

FiB:hr

M

Chittleborough, R.G. (1957) 570289
Fish. News Lett. Aust., 16(7):11,21
Australian whale marking

A brief review of whale marking operations giving the number of hump-back whales (Megaptera nodosa) marked and recovered since 1949 on the eastern and western Australian coasts. The limitations of the Discovery type of mark are discussed.

GLK:hr

M

Cholnoky, B.J. (1957) 570292
Bot. Notiser, 110(3):325-62
Über die Diatomeenflora einiger Gewässer in den Magalies-Bergen nahe Rustenburg (Transvaal) (On the diatom flora of some (fresh) waters in the Magalies mountains near Rustenburg (Transvaal))

Description of the associations of diatom in different localities with notes on the environmental conditions. Lists of diatoms with taxonomic descriptions and plates with figures are appended.

FAO:tl

F

Chittleborough, R.G. (1957) 570290
Fish. News Lett. Aust., 16(6):5
The breeding cycle of the female hump-back

Description of the female reproductive cycle of Megaptera nodosa.

GLK:hr

M

Chowdhury, S.H. (1957) 570293
Agric. Pakist., 8(2):138-53
An investigation of the Karnaphuli Paper Mill effluents and its detrimental effects on fish and other aquatic life of the river

Contains the results of a preliminary survey and investigation.

FAO:hr

F

Chiu, S.Y. (1957) 570291
Acta zool. sinica, 9(1):85-100
Preliminary notes on the Ctenophores of the South China Sea

Contains analytical keys for the species of Pleurobrachia and Beroë of the coastal waters of Kwangtung Province where P. globosa, B. cucumis and Ocyropsis crystallina were found in abundance. The process of digestion, the morphology of the stomodaeal pouches and locomotion of P. globosa are described.

FAO:hr

M

Christenson, A.M. (1957) 570294
Limnol. Oceanogr., 2:180-97
The feeding behaviour of the seastar Evasterias troschelii Stimpson

Study in an aquarium of the methods of attachment to a clam, the magnitude of the forces needed to open the clam and the time required for different feeding procedures.

HR:hr

M

Christomanos, A.A. (1957) 570295
Sea Frontiers, 3:94-7
A Greek marine station

Description of the Marine Biochemistry
Laboratory, St. George, Limni, and its
activities.

HR:tl

M

Clarke, G.L. and 570298
R.H. Backus (1957)
Wood's Hole Oceanogr. Instn, Ref. 57-15, 14 p
Measurements of light penetration in
relation to vertical migration and
records of luminescence of deep-sea
animals

M

Churchill, W. (1957) 570296
J. Wildlife Mgmt, 21:182-8
Conclusions from a ten-year creel census
on a lake with no angling restrictions

Studies on a warm-water Wisconsin lake,
in which a complete record of the
harvest and other data was collected
under a permit system, and where no
evidence of depletion was apparent
after 10 years of unrestricted hook
and line fishing.

WAD:wad

F

Clarke, R. and 570299
S.G. Brown (1957)
Norsk Hvalfangsttid., 46:513-7
International co-operation in Antarctic
whale marking from 1945 to 1957

Account on the tagging programmes 1945-
1957.

FAO:tl

M

Clark, H.F., P.W. Kabler 570297
and E.E. Geldreich (1957)
Wat. and Sewage Wks, 104:385-7
Advantages and limitations of the
membrane filter procedure

MF

Cleland, K.W. (1957) 570300
Aust. J. exp. Biol. med. Sci., 29(1):35-45
The enzymatic architecture of the
unfertilized oyster egg

Methods are described for the centri-
fugal separation of the following
granules from oyster egg homogenates:
P. granules (protein yolk), M. granules
(mitochondria), S. granules (microsomes),
and L. granules (lipide yolk or Golgi
apparatus). Nucleic acid content was
measured and presence and distribution of
various enzymes was determined.

FAO:glk

M

Clemens, H.B. (1957) 570301
Calif. Fish Game, 43:299-307
Fishes collected in the tropical eastern Pacific, 1954

Describes methods of capture, gives map and annotated list of specimens and stations.

SJH:sjh

M

Clench, W.J. (1957) 570304
Breviora, (76):4 p.
Two new land and freshwater molluscs from New Guinea

F

Clemens, H.P. and 570302
K.E. Sneed (1957)
Spec. sci. Rep. U.S. Fish Wildl. Serv.,
(219):11 p.
The spawning behaviour of the channel catfish Ictalurus punctatus

Experiments with the use of pituitary extract injections in analysis of pre-spawning behaviour of the spawning act and post-spawning behaviour.

GLK:glk

F

Clench, W.J. (1957) 570305
Bull. Mus. comp. Zool. Harv., 116:121-69
A catalogue of the Cerionidae (Mollusca-Pulmonata)

F

Clements, M. (1957) 570303
Bull. Inst. oceanogr. Monaco, 1091:1-9
The proteolytic activity of the thyroid and other tissues of the dogfish, Scyliorhinus (Scyllium) canicula

Reports on experiments which demonstrated the presence of a proteolytic enzyme of the catheptic type in the crude glycerol extracts of the thyroid of the species.

FAO:hr

M

Coates, J.A. et al. (1957) 570306
Fish. Res. Pap. Wash. Dep. Fish., 2(1):67-72
Brine shrimp nauplii (Artemia gracilis) as food for juvenile pink salmon

Tests on growth and mortality of Oncorhynchus gorbuscha in hatchery; comparison with normal food (Salmon viscera and beef liver)

FAO:sjh

MF

<p>Cockcroft, J. (1957) 570307 <u>Nature, Lond.</u>, 180:64-7 Atomic energy and its biological implications</p> <p>Summary of the studies of physiological effects and influences of radioactive contaminations on animals and especially on men; and the establishment of permissible level of exposure.</p> <p>GLK:tl MF M</p>	<p>Colarusso, A.L. (1957) 570310 <u>U.S.P.</u> 2,785,136 Briquettes for desalting sea water</p>
<p>Cocking, A.W. (1957) 570308 <u>Nature, Lond.</u>, 180:661-2 Relation between the ultimate upper lethal temperature and the temperature-range for good health in the roach (<u>Rutilus rutilus</u>)</p> <p>Roach maintain condition at 26°C, die after a few weeks at 30°C, and die within a week at 32°C. A gradual rise in temperature has deleterious effects above 30°C. The ultimate upper lethal temperature has little relation with range for health and breeding, and fish may disappear from water below the u.l.t. Criteria are suggested by which the thermal relationships may be compared.</p> <p>GLK:jae F FAO:sjh M</p>	<p>Cole, H. (1957) 570311 <u>New Sci.</u>, 2(49):27-8 The economics of corrosion</p> <p>Brief review of the problem on the occasion of a recent display in London of new anti-corrosion methods and equipment. Includes remarks on ship corrosion and protection.</p>
<p>Cohen, S.B. (1957) 570309 <u>Geogr.Rev.</u> 47,1:66-85 Israel's fishing industry</p> <p>A survey of Israel's sea and inland fisheries.</p> <p>GLK:tl IF FAO:efa M</p>	<p>Collier, A. (1957) 570312 <u>Spec.sci.Rep.U.S.Fish Wildl.Serv.</u>, (199):11 p. Gulf-II semiautomatic plankton sampler for inboard use</p> <p>Description of sampler for quantitative work, with notes on operation.</p>

Collins, V.G. (1957) 570313
J.gen.Microbiol., (Symp. on plankton),
16:268-72

Planktonic bacteria

Discusses incidence, stratification and relation with other plankters of auto- and allochthonous bacteria in Windermere, Esthwaite and other English lakes and describes culture experiments with different nutrients.

FiB:tjj

F

Comar, C.L. (Ed.) (1957) 570316
Publ.Amer.Ass.Advanc.Sci., (49):450 p.
Atomic energy and agriculture

Contains numerous articles by different authors on the use of isotopes with brief descriptions of techniques and results in the field of agricultural research, with special emphasize on research in plant and animal physiology.

:tl

MF

Colman, J.S. (1957) 570314
Liverpool University Press, 39 p.
Annual report for 1956 (No. 69) of the Marine Biological Station at Port Erin, Isle of Man

Director's report on staff; buildings, equipment, boats and gear; work done (fish and fisheries, invertebrates and plankton, botany, hydrography). Programme for 1957; meetings attended by staff, visiting research workers; student classes held; hatchery and aquarium; publications. Includes papers by Bowers, A.B., Smith, W.C., Slinn, D.J., and Ranade, H.R. and Colman, J.S., which see.

FAO:sjh

M

Combs, B.D. and 570317
R.E. Burrows (1957)
Progr.Fish Cult., 19(1):3-6
Threshold temperatures for the normal development of Chinook salmon eggs

Describes results of constant experiments with eggs of Oncorhynchus tshawytscha and variable temperature experiments with O. tshawytscha and O. gorbuscha.

WAD:wad

MF

Colowick, S.P. and 570315
N.O. Kaplan (Ed.) (1957)
Academic Press Inc., New York, 980 p.
Methods in enzymology - Vol. IV. Special techniques

MF

Comfort, A. (1957) 570318
In "The biology of ageing" by Yapp, W.B. and G.H. Bourne (Ed.), Symp.Inst.Biol., (6):23-5
Ageing in animals

Short summary of knowledge of survival curves of animals, including fish.
See 571827.

GLK:sjh

MF

Comita, G.W. and 570319
J.J. Comita (1957)

Limnol.Oceanogr., 2:321-32

The internal distribution patterns of a calanoid copepod population, and a description of a modified Clarke-Bumpus plankton sampler

A modified Clark-Bumpus plankton sampler was constructed so that the volume of water filtered could be pre-set, and the behaviour of this sampler was studied using a number 20 net.

HR:tl

M

Concha, B.J. and 570322
F.F. Vargas (1957)

Invest.zool.chil., 3:96-105

Actividad eléctrica del corazón del teleosteo Sicyopterus japonicus (Electric activity of the heart in the teleostean S. japonicus)

The cardiac electric activity of the common ching-fish is compared with similar activity of the human heart and of the hearts of crustaceans and mammals. Correlation between the time of different spaces and the body weight were compared with that predicted by the theory of biological similarities.

FiB:hr

MF

Conant, R. (1957) 570320
Copeia, (2):152-3

The eastern mud salamander, Pseudotriton montanus montanus: A new state record for New Jersey

Comments briefly upon the distribution of this sp. States that the sp. is to be added to herpetofauna of this district.

HR:efa

F

Concha, B.J. and 570323
F.F. Vargas (1957)

Invest.zool.chil., 3:122-7

Potenciales eléctricos y acción de farmacos en el corazón del crustaceo Aegla lacvis (Decapoda, Anomura) (Electrical potentials and action of drugs in the heart of the crustacean A. lacvis)

Gives the results of a study of electric activities in the heart of the species.

FiB:hr

M

Concha, B.J. (1957) 570321

Invest.zool.chil., 3:106-10

Acomodación en corazón de sapo, Calyptocephalus gayi (Accommodation in the heart of the frog, Calyptocephalus gayi)

Gives the results of a study of responses of the frog's heart to the stimulation with exponential rising currents.

FiB:hr

F

Conference on Co-ordination of 570324

Fisheries Regulation between Canada and the United States (1957) Seattle, Wash., 15 p. Summary of proceedings

M

Connell, R. and 570325
 A.H. Corner (1957)
Canad.J.Zool., 35:525-33
Polymorphus paradoxus Sp. nov. (Acantho-
cephala) parasitizing beavers and
 muskrats in Alberta, Canada

A new species is described from Castor
canadensis and Ondatra zibethica from
 a lake in Elk Island National Park.
 A species of amphipod in the lake was
 heavily infected with larval Acantho-
cephala, although the possible relation-
 ship of this infection to that in the
 hosts has not yet been determined.

FAO:hr

F

Conseil Supérieur de la 570328
 Pêche (1957)
 Paris, 59 p.
 Bulletin officiel d'information No. 27

Reviews the various activities of the
 Fisheries Council including technical
 activities, regulations and law
 enforcement.

MF

Conseil Permanent International 570326
 pour l'Exploration de la
 Mer (1957)
Statist.News Lett.Cons.int.Explor.Mer,
 (1), 22 p.
 Herring - North Sea 1955

1st of a new mimeograph series to give
 recent statistics on catches and catch
 per unit effort by months, areas (1/2
 degree rectangles), and type of vessel,
 for each country.

SJH:sjh

M

Convenção Internacional de 570329
 Pescarias (1957)
Bol.Pesca, 11(54):63-103
Relatório da subcomissão "ad hoc" na
quarta reunião da Comissão Permanente -
setembro de 1955 (Report of the
 "ad hoc" subcommission at the fourth
 meeting of the Permanent Commission -
 September, 1955)

Portuguese translation of the report.

FAO:hr

M

Conseil Supérieur de la 570327
 Pêche (1957)
 Paris
 Bulletin officiel d'information No. 28

A report of the administrative, judicial
 and technical activities of the Council.

FAO:hr

F

Cooke, C.W. (1957) 570330
Proc.U.S.nat.Mus., 107(3379), 12 p.
Rhynobrissus cuncus, a new echinoid from
 North Carolina

M

Cooper, R.O. (1957) 570331
Progr.Fish Cult., 19:190-2
Aerial fish distribution in a Montana lake

Describes methods used to transport Salmo gairdneri and plant them by free fall.

WAD:wad F

Cope, O.B. (1957) 570332
Spec.sci.Rep.U.S.Fish Wildl.Serv.,
(208):74-84

Races of cutthroat trout in Yellowstone Lake

Contribution to written symposium on sub-population of fishes (581145).
Study of Salmo clarki lewisi (Girard) populations.

FAO:sjh F

Cope, O.B. and 570333
D.W. Slater (1957)
Res.Rep.U.S.Fish.Serv., (47):22 p.
Role of Coleman Hatchery in maintaining a king salmon run

Studies were inaugurated at Coleman Hatchery, California, to determine how many of the fish (Oncorhynchus tshawytscha) entering the valuable sport and commercial salmon fisheries of California had originally been released from the hatchery, and which was the better practice: to release immature salmon from the hatchery in the spring or to release them in the fall.

FAO:glk F

Corbeil, E. (1957) 570334
Actualités mar., 1:7-10
Recherches (Research)

Notes on research work in marine and fresh waters.

FAO:glk MF

Corlett, E.C.B. (1957) 570335
New Sci., 2(49):33
Transom-stern trawlers

Correspondence on 571940, pointing out that trawlers with this stern type have already been in service for some months.

FAO:sjh M

Corner, E.D.S. and 570336
F.H. Rigler (1957)
J.Mar.biol.Ass.U.K., 36:449-58
The loss of mercury from stored sea-water solutions of mercuric chloride

A quantitative and qualitative study of the loss of mercury from sea water by means of the chloroform-dithizone procedure and by the use of radioactive mercury (^{203}Hg). Demonstrates the considerable importance of bacteria as a factor in the process.

FAO:glk M

Costlow, J.D., Jr. and 570337
C.G. Bookhout (1957)
Biol.Bull.Wood's Hole, 112(3):313-24
Larval development of *Balanus cburneus*
in the laboratory

Morphological description of different
naupliar stages with data on their
duration, reared in segregated and in
mass culture in the laboratory.

FAO:tl

M

Coulson, J.C. and 570338
E. White (1957)
Bird Study, 4:166-71
Mortality rates of the shag estimated
by two independent methods

An estimate of 44% mortality from
recoveries of dead shags is regarded as
excessive owing to ring losses. Estimates
by Jackson's negative method on the
Farne Islands gave a figure of 14%.

:jae

M

Coulter, M.W. (1957) 570339
J.Wildlife Mgmt, 21(1):17-21
Predation by snapping turtles upon
aquatic birds in Maine marshes

Includes data on fish found in stomachs
of *Chelydra serpentina* Linnaeus.

FAO:sjh

F

Council for International 570340
Organization of Medical
Sciences (1957)
Blackwell Sci.Publ., Oxford, 32 p.
The planning of international meetings

MF

Cowper, T.R. and 570341
R.J. Downie (1957)
Fish.News Lett.Aust., 16(5):7, 9, 25
Line fishing survey of S.E. slope

Summary of a report to be published
elsewhere.

GLK:glk

M

Craig, H. (1957) 570342
Tellus, 9:1-17
The natural distribution of radiocarbon
and the exchange time of carbon dioxide
between atmosphere and sea

Steady-state equations governing the
transfer and distribution of a radioactive
isotope between its various exchange res-
ervoirs are applied to the natural dis-
tribution of carbon 14. The radiocarbon
enrichment or depletion in each reservoir,
relative to the hypothetical state in
which mixing is infinitely faster than
the decay rate, is evaluated as a quanti-
tative function of the exchange rates
between the reservoirs.

FAO:tl

II

Crary, A.P. and
N. Goldstein (1957) 570343
Deep-Sea Res., 4(3):185-201
Geophysical studies in the Arctic Ocean

Topography; seismic reflections and
gravity measurements along the path of
the floating ice-island T-3.

GLK:tl

M

Gridland, C.C. (1957) 570346
J.trop.Med. (Hyg.), 60:250-6
Ecological factors affecting the numbers
of snails in permanent bodies of water

Study of collections of Biomphalaria
adownsi, B. sudanica, Bulinus forskalii
& Gymnaca natalensis from Uganda ponds,
1/8/54 - 28/2/56; incidence of trematode
infection; seasonal population changes.

Fid:sjh

F

Creach, P.V. (1957) 570344
Rev.Trav.Inst.Pêches marit., 21:415-30
Variations physiologiques du phosphore
total de la coquille de Gryphaea angu-
lata Lmk) (Physiological variations
in the total phosphate in the shell of
G. angulata Lmk)

Methods, experimental results and
examination of the influence of
composition of bottom mud on the
phosphate content of the shell.

FAO:glk

M

Gridland, C.C. (1957) 570347
J.trop.Med. (Hyg.), 60:18-23
Further experimental infection of several
species of East African freshwater snails
with Schistosoma mansoni and S. haema-
tobium

F

Grichton, M.I. (1957) 570345
Phil.Trans., B677(241):45-91
The structure and function of the mouth
parts of adult caddis flies (Trichoptera)

F

Crisp, D.J. (1957) 570348
Nature Lond., 179(4570):1138-9
Effect of low temperature on the breeding
of marine animals

Experiments made with two species of
arctic barnacles Balanus balanoides and
B. balanus showed that by maintaining
individuals at a low or high temperature
it is possible to cause breeding to take
place at times of the year other than
the normal breeding season.

GLK:hr

M

Crockor, D.W. (1957) 570349
Bull.N.Y.St.Mus., (355), 97 p.
The crayfishes of New York State

F

Cronin, L.E. et al. (1957) 570352
Spec.sci.Rep.Va Fish.Lab., (8):21 p.
A partial bibliography of the genus
Callinectes

A world list of over 550 references to the decapod crustacean genus Callinectes, divided into (1) published references, (2) unpublished manuscripts, and (3) incomplete or unverified references.

FiB:hr

M

Croghan, P.C. (1957) 570350
Proc.R.phys.Soc.Edinb., 26(1):9-10
The colonisation of the freshwater habitat

Account of comparative study of osmotic regulation in freshwater and brackish (Baltic) races of Mesidotea in Sweden. Full account in press (J.exp.Biol., 1957).

SIH:sjh

MF

Croome, A. (1957) 570353
Discovery, 18:260-4
The international geophysical year.
Month by month

News report including: account of recruiting scientists for polar research in marine biology in the Falkland Islands Dependency; final calendar of Regular World Days and World Meteorological Intervals.

FAO:sjh

M

Crompton, J. (Pseud.of 570351
Lamburn, J.B.) (1957)
Garden City, N.Y., Doubleday, 233 p.
The living sea

M

Croome, A. (1957) 570354
Discovery, 18(1):31-5
The international geophysical year.
Month by month

News report of programme developments including preparations for hydrographic surveys.

FAO:sjh

M

Croome, A. (1957) 570355
Discovery, 18(2):71-4
 The international geophysical year.
 Month by month

Review includes plans for oceanographic work.

FAO:sjh M

Croome, A. (1957) 570356
Discovery, 18(7):307-10
 The international geophysical year.
 Month by month

Short account of the IGY programmes of different countries.

FAO:tl M

Crusz, H. (1957) 570357
Ceylon J.Sci., Sec.B, 25:193-5
 New Anaporrhutine trematode, Staphylor-
 chis parisi sp. nov. from the shark,
Scyliodon walboehmi

M

Cruz, J.A. Machado (1957) 570358
Notas Est.Inst.Biol.marit., (14)
 A sardina do norte de Portugal (Sardina
 pilchardus Walb.). Características
 etárias e de reprodução (The sardine
 of northern Portugal (Sardina pilchardus
 Walb.). Age and reproduction character-
 istics). En

Study of length, age composition and sexual maturity of 99 samples from the commercial catch.

FAO:hr M

C.S.I.R.O. (1957) 570359
Rep.Div.Fish.Oceanogr. C.S.I.R.O.,
 (4):16 p.

An analysis of recent catches of hump-back whales from the stocks in groups IV and V

Analyses the catches of Megaptera nodosa from 1949/50 to 1955/56 from Western Australia and Antarctic region between longitude 70°E. to 130°E. and longitude 130°E. to 160°W. A comparison of whaling of the species in antarctic and temperate waters is also presented.

FiB:hr M

C.S.I.R.O. (1957) 570360
Rep.Div.Fish.Oceanogr. C.S.I.R.O.,
 (5):16 p.

F.R.V. DERWENT HUNTER

Description of the biological and hydro-graphical results of the cruises. DH3/56 was a tuna longlining cruise off the New South Wales coast, DH4/56 was a cruise in Bass Strait to determine the correlation between the euphausiid Nyctiphanes australis and the barracouta Thyrsites atun, and DH5/56 was a cruise by the Division of Meteorological Physics, C.S.I.R.O. in the Port Phillip Bay area.

GLK:tl M

<p>Cuba. Instituto Nacional de la Pesca (1957) 570361 <u>La Habana</u> ¿Qué es el Instituto Nacional de la Pesca? Sus actividades y fines (What is the National Fisheries Institute? Its activities and aims)</p> <p>Describes the structure, functions and work accomplished by the Cuban Institute. Information on a planned fisheries terminal, fisheries resources and fisheries, and a list of common English, local and scientific names of the most important commercial species of Cuba is also given.</p> <p>HR:hr M</p>	<p>Currie, R.I. and P. Foxton (1957) 570364 <u>J.Mar.biol.Ass.U.K.</u>, 36(1):17-32 A new quantitative plankton net</p> <p>A meter is described which will record both the depth and amount of water which a net filters as it is hauled vertically through the water. The meter records on a smoked glass cylinder. From the records it is possible to study the complete behaviour of the net below water, what depth it has fished, how much clogging occurred, the depth of closure, etc.</p> <p>HR:tl M</p>
<p>Guerrier, J.P. and F.H. Schultz (1957) 570362 <u>Wildl.Mgmt Bull.</u>, Ser. 3, (5):41 p. Studies of lake trout and common whitefish in Waterton Lakes, Waterton Lakes National Park, Alberta</p> <p>F</p>	<p>Cushing, D.H. (1957) 570365 <u>Fish.Invest.</u>, Lond., Ser.II, 21(3):16 p. The interpretation of echo traces</p> <p>The form of fish traces can give some information on the size and formation of fish shoals. Illustrations of traces for several species under different conditions.</p> <p>FAO:sjh MF</p>
<p>Curl, H. (1957) 570363 <u>Limnol.Oceanogr.</u>, 2:315-20 A source of phosphorus for the western basin of Lake Erie</p> <p>The western basin of Lake Erie is supplied with phosphate phosphorus by the Maumee River in Ohio. This apparently is the most important source for the lake due to the high phosphorus concentrations involved and the large volume of flow in the spring months.</p> <p>HR:tl F</p>	<p>Cushing, D.H. (1957) 570366 <u>Fish.Invest.</u>, Lond., Ser.II, 21(5) The number of pilchards in the Channel</p> <p>Echo survey, egg sampling, plankton and temperature measurements, April-August 1950. Stock estimate from egg numbers used to calibrate echo traces. Horizontal and vertical fish distribution; relation of <u>Clupea pilchardus</u> to environmental factors.</p> <p>FAO:sjh M</p>

<p>Cushing, D.H. (1957) 570367 <u>Nature, Lond.</u>, 179:876 Production of carbon in the sea</p> <p>Presents data on quantity of carbon in mgm./m.³/day as % of standing crop of phytoplankton in North Sea.</p> <p>GLK:efa</p>	<p>da Franca, P. (1957) 570370 <u>Trab.Miss.Biol.marit.</u>, (12-16):9-45 Contribuição para o conhecimento dos Serranidae de Angola (Contribution to the knowledge of Serranidae of Angola)</p> <p>A systematic study with description of the species.</p> <p>FAO:hr</p>
<p>Cushing, D.H. (1957) 570368 <u>Nature, Lond.</u>, 180:617 Production of carbon in the sea</p> <p>Reply to 571213.</p> <p>GLK:glk</p>	<p>Daget, J. (1957) 570371 <u>Hydrobiologia</u>, 9(4):321-47 Données récentes sur la biologie des poissons dans le delta central du Niger. (Recent data on fish biology in the Niger delta)</p> <p>Description of environmental factors, species list; spawning seasons, migrations, growth of <u>Alcistes</u> and <u>Tilapia spp.</u>; adaptations to respiratory conditions.</p> <p>FAO:wad</p>
<p>Cushing, D.H. and 570369 A.C. Burd (1957) <u>Fish.Invest., Lond.</u>, 20(11):31 p. On the herring of the Southern North Sea</p> <p>Discusses the identity and unity of the "Downs" stock; recent natural changes in the stock and its environment and changes that can be ascribed to the effects of fishing. Considers the effects of the industrial fishery of the change in age of maturity, and of fishing on the adult stock.</p> <p>FAO:scf</p>	<p>Dahl, E. (1957) 570372 <u>Nature, Lond.</u>, 179:482 <u>Embryology of X organs in Crangon</u> <u>allmanni</u></p> <p>Brief account of investigations carried out on embryological material of this sp.</p> <p>FAO:efa</p>

Dahl, J. (1957) 570373
ForskvandsfiskBl., 55(8):5 p.
 Fiskedrabot i Lyngby Sø (Fish
 mortality in lake Lyngby)

Description of fish mortality due to
 lack of oxygen, and data of the changes
 which took place in the lake and caused
 the mortality (high pH caused by
 intensive photosynthesis and low
 barometric pressure).

WAD:tl

F

Dales, R.P. (1957) 570376
Bull.Scripps Instn Oceanogr., 7:99-167
 Pelagic polychaetes of the Pacific Ocean

Reviews the species of pelagic polychaetes
 that have been found in the Pacific Ocean,
 and gives keys and illustrations to aid
 in their identification. The keys include
 species that occur elsewhere but have not
 yet been recorded from the Pacific.

FiB:hr

M

Dahl, J. (1957) 570374
ForskvandsfiskBl., 55(9)
 Forskvandskvabbe (knude) fra saltvand
 (Lota lota, a freshwater burbot caught
 in marine waters)

WAD

MF

Dalos, R.P. (1957) 570377
New Scient., 3(53):22-3
 Ragworms and caviar

Popular account of work initiated by
 Prof. Zenkevitch in transplanting and
 establishing populations of Nereis succi-
nea in the Caspian Sea from the Sea of
 Azov; as a result of which stocks of
Acipenser have increased by augmentation
 of their food supply.

FAO:sjh

M

Dale, H.M. (1957) 570375
Canad.J.Res.(Bot.), 35:51-64
 Developmental studies of Elodea canad-
ensis Michx. II. Experimental studies on
 morphological effects of darkness

Gives description of morphological
 characteristics of sprigs grown in
 the dark and discusses factors that
 may be responsible for pattern of
 growth.

FAO:efa

F

Dalos, R. Ph. (1957) 570378
J.Mar.biol.Ass.U.K., 36(1):81-9
 The feeding mechanism and structure of
 the gut of Owenia fusiformis delle Chiaje

Owenia may feed either by ciliary means or
 by swallowing sand and detritus. The gut
 consists of three main parts, a fore-
 gut secretory, a non-secretory mid-gut
 region and a hind-gut which is non-
 secretory, non-absorptive. The mid-gut
 contains coproporphyrin III and also
 phaeophorbide-b, to which the green colour
 is due. The green pigment in the epidermis
 is also phaeophorbide-b, but phaeophorbide-a
a is apparently absent from the body.

HR:hr

M

d'Ancona, U. (1957) 570379
Ric.sci., 27:1101-5
Istituto nazionale di studi talassografici - Attività svolta durante gli anni 1955-1956

Report on the Institute's activity in the last two years; reorganization of the residence, scopes and finalities, thalassographic cruise in the Adriatic, Archive for Oceanography and Limnology, mareographic Section in Trieste and Section for hydrobiology of the lagoons in Chioggia, staff, research boats, participation in international activities, Geophysical Year.

FAO:glk

FM

Dansereau, P.M. (1957) 570382
Ronald Press Co., New York, 394 p.
Biogeography and ecological perspective

A text-book of general ecology, dealing with history of biota, bioclimatology, synecology, autecology, and influence of man on animal and plant communities.

FAO:sjh

MF

Danel, P. (1957) 570380
Trans.Amer.geophys.Un., 38(5):761-3
Discussion of "Properties of shoaling waves by theory and experiment"

Discussion on original article by P.S. Eagleson (1956, Trans.Amer.geophys.Un., 37:565-72), on the Stokes' third approximation for wave celerity in relatively shallow water.

FAO:tl

M

Dao Van Tien (1957) 570383
Zool.Zh., 36(8):1209-16
Zoologicheskoe issledovaniia v tsentral'nom V'etname (Raion Vin'-Lin' v provintsii Kuang-Tri) (Report on the zoological researches in the Vinh-Linh region (Quang-Tri's province, central Vietnam))

List of fishes and other organisms collected, with some biometrical and bionomic notes.

FAO:glk

MF

Dannevig, G. (1957) 570381
Tidskr.Hermetikind., 43(1):23-7
Omkring vekslingene i brislingfisket (On the fluctuations in the sprat fisheries)

Description of the fluctuations from 1902-1955. Notes on results of investigations on life history, distribution of eggs and larvae and discussions on the reasons for fluctuations.

FAO:tl

M

Darbyshire, J. and 570384
S. Ishiguro (1957)
Nature, Lond., 180(4577):150
Tsunamis

Explanation of the origin and meaning of the word "tsunami" in Japanese.

GLM:tl

M

Darlington, P.J., Jr. (1957) 570385 <u>John Wiley and Sons, Inc. New York, 1957,</u> 675 p. Zoogeography: the geographical distribution of animals A geographical zoogeography concerned only with the land and fresh water and principally with vertebrates.		Davies, D.H. (1957) 570388 <u>Invest. Rep. Div. Fish. S. Afr., (26), 59 p.</u> <u>The South African pilchard (<i>Sardinops ocellata</i>) - Size composition of the commercial catches, 1950-55</u> Summarizes data under following headings: 1) Sampling-catching method; frequency; daily routine. 2) Assessment of sampling-test of homogeneous population; possibility of improvement. 3) Dominant size-groups by months. 4) Dominant size-groups by years. 5) Size compositions of catches in selected areas.	
:hr	MF	FAO:sjh	M
da Silva, Morcira P. (1957) 570386 <u>Int. hydr. Rev., 34(2):141-4</u> Quelques méthodes nouvelles pour la réduction rapide des observations océanographiques (Some new methods for rapid reduction of oceanographic observations) Nomograms for T-S, and calculation of dynamic anomaly.		Davison, V.E. (1957) 570389 <u>Louisiana Conserv., 9(5):14-9</u> Managing farm fishponds for bass and bluegills A popular illustrated article.	
FAO:glk	M	FAO:sjh	F
Davies, D.H. (1957) 570387 <u>Invest. Rep. Div. Fish. S. Afr., (29)</u> The South African pilchard (<i>Sardinops ocellata</i>) and maasbanker (<i>Trachurus trachurus</i>) - Young fish survey, 1955-56 Results of working the blanket-net regularly once a month for a period of a year at each of eleven stations situated off the west coast of South Africa. The occurrence and abundance of juvenile fish are related to water temperature, winds and availability of food.		Dawson, C.A. (1957) 570390 <u>Canad. J. Econ. pol. Sci., 23:272-4</u> Arctic research: The current status of research and some immediate problems in the North American Arctic and Sub-arctic Critical review of a paper by D. Rowley, with same title. (<u>Spec. Publ. arct. Inst. N. Amer., 2(1955), repr. from Arctic, 7(3-4):113-366</u>).	
FAO:tl	M	FAO:sjh	MF

<p>Dawson, E.Y. (1957) 570391 <u>Pacif.Sci.</u>, 11(1):92-132 An annotated list of marine algae from Eniwetok Atoll</p> <p>List of collecting localities, glossary, key, illustrations; description of some new species and varieties.</p> <p>GLK:glk M</p>	<p>Day, L.R. (1957) 570394 <u>Bull.Fish.Res.Bd Can.</u>, (111):103-19 Populations of herring in the northern Gulf of St. Lawrence</p> <p>Length and age composition; growth; year-class abundance; sex and maturity; vertebral count.</p> <p>FAO:glk M</p>
<p>Dawson, R.M.C. (1957) 570392 <u>Biol.Rev.</u>, 32:188-229 The animal phospholipids: their structure, metabolism and biological significance</p> <p>Account of critical investigations into the dynamic biochemistry of animal phospholipids, their relation to other metabolic systems and physiological functions in animal economy.</p> <p>FAO:efa MF</p>	<p>Day, L.R. (1957) 570395 <u>Bull.Fish.Res.Bd Can.</u>, (111):165-76 Vertebral numbers and first-year growth of Canadian Atlantic herring (<u>Clupea</u> <u>harengus</u> L.) in relation to water temperature</p> <p>Water temperatures are inversely related to vertebral number and directly related to first-year growth when compared for different areas, different year-classes and different ages of the same year- classes.</p> <p>FAO:glk M</p>
<p>Day, L.R. (1957) 570393 <u>Bull.Fish.Res.Bd Can.</u>, (111):121-37 Populations of herring in the southern Gulf of St. Lawrence</p> <p>Comparison of size, age, maturity and vertebral data collected in 1946, 1947 and 1948 suggest that two or more spring-spawning populations contributed to the commercial herring fisheries in the southern Gulf of St. Lawrence.</p> <p>FAO:glk M</p>	<p>Deacon, G.E.R. (1957) 570396 <u>Challenger Soc.</u>, 3(9):36 The oceanographic contribution to the International Geophysical Year</p> <p>Abstr. of paper read at Joint Meeting of the Water Pollution Research Laboratory, Stevenage; and Zoological Society of London, Regent's Park, London. 24th and 25th January, 1957. Lists projects chosen to provide useful contribution to IGY.</p> <p>SJH:efa M</p>

<p>Deacon, G.E.R. (1957) 570397 <u>Discovery</u>, 18:386-7 Deep ocean currents</p> <p>Popular description of the use of current data and necessity to measure permanent currents. Description of an instrument to measure deep currents, based on radio-sonde technique.</p> <p>FAO:tl M</p>	<p>de Buen, F. (1957) 570400 <u>Invest.zool.chil.</u>, 4:57-61 Algunos datos para el conocimiento de la biología del langostín o langostino (<u>Corvimmunida johni</u>) (Some data for the knowledge of plated lobster (<u>Corvimmunida johni</u>))</p> <p>Gives data on the condition of the fishery, sexuality, maturity, total length, etc. from October to November 1955.</p> <p>HR:hr M</p>
<p>Deacon, G.E.R. (1957) 570398 <u>Mar.Obs.</u>, 27(175):33-6 Oceanography in the International Geophysical Year</p> <p>Description of the oceanographical programme during the IGY, especially the 1) mean sea-level, 2) long waves, 3) water circulation projects, and the significance of research on the above.</p> <p>FAO:tl M</p>	<p>de Buen, F. (1957) 570401 <u>Invest.zool.chil.</u>, 4:33-56 Declinación de las poblaciones animales en aguas del litoral, preferentemente moluscos y crustaceos (Diminishing of the littoral animal populations, especially shellfish and crustaceans). En</p> <p>Reviews the causes of natural mortality among littoral populations of fish and shellfish; mortality due to fishing and that caused by changes in the aquatic environment. Near extinction of oysters in the Guasimas lagoon (W. Mexico) and the obvious reduction of size in oysters at the Tampamachoco lagoon (G. of Mexico) are quoted.</p> <p>HR:glk MF</p>
<p>Deacon, G.E.R. (1957) 570399 <u>Nature Lond.</u>, 179:66-8 Marine science in the south-east Pacific Ocean</p> <p>A popular account of oceanographical problems off Chilean and Peruvian coasts.</p> <p>FAO:wad M</p>	<p>De Buissonje, P.H. et al. (1957) 570402 <u>Bol.Soc.venezol.Cienc.nat.</u>, 17(86):184-209 Informe acerca de un reconocimiento biológico y geológico de las islas venezolanas Las Aves (Report of a biological and geological survey of the Venezuelan Islands of Las Aves)</p> <p>Contains notes on the marine fauna and flora.</p> <p>FAO:chr M</p>

de Carvalho, V.A. (1957) 570403
Presidência da República do Brasil,
Conselho Coordenador de Abastecimento,
Seção: Pescado em colaboração com a
F.O., 33 p. (mimeo)

Nomes vulgares de peixes brasileiros
marinhos com seus correspondentes em
sistemática (Scientific and common
names of Brazilian marine fishes)

A glossary of names.

GLK:hr

M

De Carvalho Rios, E. (1957) 570404
Ann.Ass.quim.Brasil., 12:181-7
Chemical composition of the algae used as
fertilizers in Rio Grande

F

Decary, R. (1957) 570405
Encycl.Hons.d'Outre-Mer, 77:15-8
La pisciculture à Madagascar
(Pisciculture in Madagascar)

GLK:tl

F

Declaire, L. (1957) 570406
Bull.Inst.franc.Afr.noire, A.Sci.nat.,
19:367-72

Matériaux pour une faune rhizopodique
d'A.O.F. (Material for a rhizopod
fauna of F.W.A.)

Taxonomy and distribution of material
from the Mauretanian and Ivory Coasts.

FAO:glk

F

Deering, R.A. and 570407
R.B. Setlow (1957)
Science, 126:397-8
Inhibition of cell division of Escheri-
chia coli by low doses of ultraviolet
light

Cultures of Escherichia coli B carried
on nutrient agar slants were inoculated
into C-1 minimal medium and after
appropriate dilution were irradiated with
a water prism ultraviolet monochromator
at various wavelengths.

FAO:glk

MF

Deevey, E.S. (1957) 570408
Trans.Conn.Acad.Arts Sci., 39:213-328
Limnologic studies in Middle America,
with a chapter on Aztec limnology

F

de Jager, B.v.D. (1957) 570409
Invest.Rep.Div.Fish.S.Afr., (25):78 p.
 The South African pilchard (Sardinops
ocellata) and maasbanker (Trachurus tra-
churus) - Variations in the phytoplankton
 of the St. Helena Bay area during 1954

The relationship between the occurrence,
 quantity and distribution of phyto-
 plankton and certain hydrological factors
 The phytoplankton genera recorded at two
 selected stations are tabulated in order
 of abundance; the quantity of phyto-
 plankton in relation to depth
 distribution is also given.

FAO:tl

M

Delamare Deboutteville, Cl. 570412
 and P.A. Chappuis (1957)
Bull.Inst.franç.Afr.noire, 19:491-500
 Contribution à l'étude de la faune
 interstitielle marine des Côtes d'Afri-
 que. I. Mystacocarides, copépodes et
 isopodes (Contribution to the study
 of the marine interstitial fauna of the
 African coasts. I. Mystacocarids,
 copepods and isopods)

Morphological notes.

FAO:glk

M

De Kimpe, P. (1957) 570410
Bull.Agric.Congo Belge, 48(1):105-52
 Le contrôle de la Jacinthe d'eau (The
 control of the water Hyacinth)

A review of the development and
 destruction of the Eichhornia crassipes
 including the first results obtained in
 controlling it in the Belgian Congo.

Delleur, J.W. (1957) 570413
Proc.Amer.Soc.civ.Engrs, 83, EMI,
 (1138):24 p.
 The boundary layer development in open
 channels

WAD:hr

F

MF

Delamare Deboutteville, C. (1957) 570411
Vie et Milieu, 8(1):110
 Le mystacocaride Derocheilocaris biscayen-
sis sur les côtes du Portugal (The
 mystacocarid Derocheilocaris biscayensis
 on the coasts of Portugal)

de Loture, R. (1957) 570414
Spec.sci.Rep.U.S.Fish Wildl.Serv.,
 213:147 p.
 History of great fishery of Newfoundland

A comprehensive review of the cod
 fishery. Describes socio-economic
 development and the fishing operations
 in detail.

FAO

M

FAO:sjh

M

<p>Délye, G. (1957) 570415 <u>Bull.Inst.océanogr.Monaco</u>, (1093):1-8 Crustacés décapodes récoltés au cours de la croisière du comité local d'océano- graphie et d'études des côtes d'Algérie aux îles Habibas (Crustaceans decapods collected during the cruise of the local committee of oceanography and studies of the coast of Algeria to the islands Habibas)</p> <p>Gives the depths of the stations, nature of the bottom, list of other organisms collected with the decapods, the abundance of which is indicated.</p>	<p>Department of Oceanography and 570418 Meteorology. A and M College of Texas (1957) <u>College Station, Texas</u>, (mimeo), 7 p. Publications and projects reports - annual and technical 1956</p> <p>List of reports published in 1956, dealing with many aspects of oceanography.</p>
<p>FAO:hr M</p>	<p>FiB:sjh M</p>
<p>Demond, J. (1957) 570416 <u>Pacif.Sci.</u>, 11(3):275-341 Micronesian reef-associated gastropods</p> <p>A synopsis of existing knowledge of the ecology and zoogeography of the organisms. It summarizes for each species the environmental conditions in which living specimens have been found, and it outlines the recent geographic occurrence of each species throughout the entire Indo-Pacific region.</p>	<p>Desakorn, R.T.N. (1957) 570419 <u>Int.hydr.Rev.</u>, 34(2):15-8 Progrès réalisés par le service hydro- graphique Thaïlandais au cours des cinq dernières années (1952-1957) (Progress achieved by the Thai hydro- graphic service in the course of the last five years (1952-1957))</p> <p>Schedule of personnel sent overseas for training of development of establish- ment (and diagram of present structure), new equipment, and technical progress.</p>
<p>FAO:hr M</p>	<p>FAO:glk M</p>
<p>De Ong, D.R. (1957) 570417 <u>Reinhold Publishing Corp.</u>, New York, 334 p. Chemistry and uses of pesticides</p>	<p>Desbrosses, P. (1957) 570420 <u>Sci.Pêche</u>, 46:1-2 Le morlan des eaux d'Irlande (The whiting of the Irish waters)</p> <p>A note on the structure of the populations of whiting of the eastern and western coast of Ireland and coast of France.</p>
<p>F</p>	<p>FAO:hr M</p>

De Sylva, D.P. (1957) 570421
Bull.Mar.Sci.Gulf Caribb., 7(1):1-20
Studies on the age and growth of the
Atlantic sailfish, Istiophorus americanus
(Cuvier), using length-frequency curves

Analysis of 8630 specimens taken 1948-55
off S.Florida, W.Bahamas and the Gulf of
Mexico: growth in weight and length up
to 3 years illustrated.

FAO:sjh

M

Diaz-Piferrer, M. (1957) 570424
Paper presented at the Inter-Island
Marine Biological Conference, March
31 - April 6, 1957
Studies of marine algae in Cuba

Statement of efforts to reconstitute
collegiate curricula relating to
natural resources, and of current
researches. Abstract in "Report by
the Institute of Marine Biology,
University of Puerto Rico".

HR:glk

M

Dethier, G. (1957) 570422
Science, 125(3243):331-6
Communication by insects: physiology of
dancing

Dick, W.E. (1957) 570425
Butterworths Scientific Publications,
London
Atomic energy in agriculture

Includes account of uptake of radio-
active material in food by damselfish in
Bikini Lagoon.

FAO

F

:sjh

MF

Dexter, R.W. (1957) 570423
Bull.ecol.Soc.Amer., 38:100
The annual fluctuation of a freshwater
jellyfish population with reference to
climatic factors

Abstract of paper presented at the
meeting of the Ecological Society of
America, Indianapolis, December 27-29,
1957.

GLK:glk

F

Dickie, L.M. and 570426
J.S. MacPhail (1957)
Progr.Rep.Atl.Cst Stas, (66):3-9
An experimental mechanical shellfish-
digger. Fr

Ill. description and use of gear for
Mya arenaria fishery of maritime
provinces of Canada.

GLK:sjh

M

Dietrich, G. (1957) 570427
Ber.dtsch.Komm.Meeresforsch., 14(4):256-
 82
 Schichtung und Zirkulation der Irminger-
 See im Juni 1955 (Stratification and
 circulation of the Irminger Sea in June
 1955)

Extensive charting and tabulation of data
 from cruises of ANTON DOHRN, description
 of water masses and of water circulation.

FAO:glk

M

Dietrich, G. (1957) 570428
Dtsch.hydrogr.Z., 10:39-61
 Ozeanographische Probleme der deutschen
 Forschungsfahrten im Internationalen
 Geophysikalischen Jahr 1957/58
 (Oceanographic problems to be investigat-
 ed on the German research cruises during
 the International Geophysical Year 1957/
 58)

Bottom topography, subsurface and deep
 water circulation and circulation of
 bottom water.

FAO:t1

M

Dietrich, G. (1957) 570429
Gebr.Bornträger, Berlin-Nikolassee, 492 p.
Allgemeine Meereskunde. Eine Einführung
in die Ozeanographie (General
 oceanography. An introduction to
 oceanography)

A textbook in oceanography.

FAO:t1

M

Dieuzeide, R. (1957) 570430
Bull.Sta.Aquic.Pêche Castiglione, (8):
 73-80

Les myxines (Myxine glutinosa L.) en
 Méditerranée (The myxines (Myxine
glutinosa L.) in the Mediterranean)

An illustrated note on the occurrence
 of the species in the Mediterranean.

FAO:hr

M

Dieuzeide, R. and 570431
 J. Roland (1957)
Algérie marit., 54:1-2
 Un poisson nouveau pour la Méditerranée
 "Ophichthys semicinctus" (A fish new
 for the Mediterranean Sea "O. semicinctus")

Reports recent new species and extensions
 of known range.

FAO:sjh

M

Dieuzeide, R. and 570432
 J. Roland (1957)
Bull.Sta.Aquic.Pêche Castiglione, (8):
 83-106

Complément au catalogue des poissons des
 côtes Algériennes (Complément to the
 catalogue of fishes of the coast of
 Algeria)

Description with notes on edible value
 and methods of capture of Alepocephalus
r. striatus, Bathypterois dubius, Nemichthys
scalopaceus, Callionymus festivus, and
Cubiceps ismaelensis.

FAO:shr

M

Dieuzeide, R. and 570433
J. Roland (1957)
Bull.Sta.Aquic.Pêche Castiglione, (8):
109-225

Etude biométrique de Sardina pilchardus
Walb. et de Sardinella aurita C.V.
capturées dans la baie de Castiglione
(Biometric study of the Sardina pilchardus
Walb. and of Sardinella aurita C.V.
captured in the Bay of Castiglione)

A study of size, growth, age, longevity,
sexual ration, weight, sexual develop-
ment, fattening, morphometric and
meristic characters.

FAO:hr

M

Diolé, P. (1957) 570436
Pan Books Ltd., London, 191 p.
4000 years under the sea - Excursions in
undersea archaeology

Illustrated popular account of aqualung
diving for archaeological research;
includes study of ancient ships and
harbours, notes on rate of growth of
encrusting organisms and other
observations of marine life.

SJH:sjh

M

Dieuzeide, R. and 570434
J. Roland (1957)
Bull.Sta.Aquic.Pêche Castiglione, (8):
227-49

Observations relevées sur les sardines
(Sardina pilchardus Walb.) de la Baie
de Castiglione, parasitées par Peroderma
cylindricum Heller (Observations
on the sardines (Sardina pilchardus
Walb.) of the Bay of Castiglione,
parasited by Peroderma cylindricum
Heller)

Contains information on percentage of
individuals parasited, seasonal frequency,
name and position of parasites, effect of
parasites on sexual development and
fattening.

FAO:hr

M

Diolé, P. (1957) 570437
Pan Books Ltd., London
The undersea adventure

Illustrated popular account of aqualung
diving, with observations of floating
plants, reproductive and other behaviour
of marine animals.

:sjh

M

Dieuzeide, R. and 570435
J. Roland (1957)
Bull.Sta.Aquic.Pêche Castiglione, (8):
9-27

Operations de draguages et de chalutages
effectuées au large des côtes Alge-
riennes au cours des années 1954 et 1955
(Dragging and trawling off the coasts of
Algeria during 1954 and 1955)

Contains list of fishes, molluscs,
crustaceans, and several groups of
marine invertebrates collected during
several operations.

FAO:hr

M

Dobrzhanskaia, M.A. (1957) 570438
C.R.Acad.Sci.U.R.S.S., 115(4):755-8
Sezonnye osobennosti vertikalnogo
raspredelennia kislovoda v zone
fotosinteza Chernogo moria (Seasonal
peculiarities in the vertical distribu-
tion of oxygen within the zone of
photosynthesis in the Black Sea)

M

Doi, T. (1957) 570439
Bull.Tokai Fish.Res.Lab., 15:1-13
(Some considerations of the personal error and precision in observing biological property of fish in relation with the communication theory). Ni

Treatment of observational error as "noise" in a communication system.
Experimental application of concepts on information theory to age-determination of sardine, length measurements of anchovy and vertebral counts of 34 spp. of fish.

SJH:sjh

M

D88s, B. and M.A. Eaton (1957) 570442
Tellus, 9(2):184-94
Upper-air analysis over ocean areas

A method of determining the mean lapse rate by interpolation is presented by means of which heights of upper pressure surfaces can be extrapolated from observed values of surface pressure and temperature. An attempt is made to determine statistically the true mean error in the numerical analysis of upper-air charts.

FAO:tl

M

Doodson, A.T. (1957) 570440
Int.hydr.Rev., 34(1):89-131
Analyse et prediction des marées en eau peu profonde (Analysis and prediction of tides in shallow waters)

A review of the development of methods to predict the hours and heights of low and high tides.

FAO:hr

M

Detz, M.S. and M. Oguri (1957) 570443
Limnol.Oceanogr., 2(1):37-40
Evidence for a photosynthetic daily periodicity

Refers to results obtained in measurement of photosynthetic activity indicating a 5.7-fold variation according to the time of day at which samples were collected and discusses preliminary tests of an hypothesis that there is a daily periodicity in the photosynthesising ability of organisms.

HR:glk

MF

Doodson, A.T. (1957) 570441
Int.hydr.Rev., 34(2):139
Le mouvement des marées (The movement of tides)

Commentary on a film on tides.

Doudoroff, P. (1957) 570444
In "The Physiology of Fishes". Vol.II. Behaviour. Edited by M.E. Brown, Academic Press Inc., Publishers, New York, pp. 403-30
Water quality requirements of fishes and effects of toxic substances

FAO:glk

M

FAO:glk

MF

<p>Doutre, M. (1957) 570445 <u>France Pêche</u>, 2(11):20-3 Déplacement des lieux de pêche de la flotille thonière basée à Dakar (Change in the area of operation of the tuna fishing fleet based at Dakar)</p> <p>Distribution of the location of operations in 1955-1956.</p> <p>FAO:glk M</p>	<p>Dowell, V.E. (1957) 570448 <u>Dissert. Abstr.</u>, 17(4):919-20 Activity patterns and distribution of the fishes in the Buncombe Creek arm of Lake Texoma</p> <p>F</p>
<p>Doutre, M. (1957) 570446 <u>Sci. Pêche</u>, 49:1-4 Déplacement des lieux de pêche de la flotille thonière basée à Dakar (Change in the area of operation of the tuna fishing fleet based in Dakar)</p> <p>Records of commercial catches of <u>Neothunnus albacora</u> based on previous scientific surveys.</p> <p>FAO:hr M</p>	<p>Drew, K.M. (1957) 570449 <u>Nature, Lond.</u>, 180(4577):112-5 The red algae (1906-56 and after)</p> <p>Historical review of the investigation of red algae and discussion on some unsolved problems in the life history of these algae.</p> <p>GLK:tl M</p>
<p>Dow, R.L. and D.E. Wallace (1957) 570447 <u>Augusta, Maine</u>, 35 p. The Maine clam (<u>Mya arenaria</u>)</p> <p>M</p>	<p>Drion, E.F. (1957) 570450 <u>Mimeo</u>, 2 p. The effect of small reductions of the number of blue whale units to be taken in Antarctic pelagic whaling</p> <p>Comments on the negligible effect of small limitations of catches of <u>Balaenoptera physalus</u> on the size of the stock.</p> <p>FiB:hr M</p>

Drion, E.F. and E.J. Slijper (1957) 570451
Mimeo, 8 p.

Some remarks on our present knowledge of the stock of fin whales in the Antarctic

Reviews the existent biological knowledge of the stocks of Balaenoptera physalus in the Antarctic. Gives in Appendix I calculated mortality rates at age zero of that species, and in Appendix II a provisional report concerning age determination by means of baleen plates in the same species by W.L. Utrecht and C.N. Cook.

FiB:hr

M

Dudek, J. (1957) 570454
Biologia, 12:374-76

Príspevok k určeniu vplyvu svetla na intenzitu prijímania potravy u pícsta zelenkavého (Blicca bjoerkna L.)
(Contribution to the determination of the influence of light on the intensity of the uptake of food by Blicca bjoerkna L.)

Investigation on the diurnal variations in the feeding intensity.

FAO:tl

F

Droop, M.R. (1957) 570452
J.gen.Microbiol. (Symposium on plankton), 16:286-93

Auxotrophy and organic compounds in the nutrition of marine phytoplankton

Description of earlier experiments establishing the vitamin requirements, especially B₁₂, and sulphur compounds by marine phytoplankton organisms.

FiB:tl

M

Dumas, P.C. (1957) 570455
Copeia, (2):150-1
Rana sylvatica Le Conte in Idaho

Reports records that suggest the presence of a population in Idaho.

HR:efa

F

Drummond, K.H. (1957) 570453
Dep.Oceanogr., A. and M.Coll.of Texas, 1 vol.
Oceanographic data, Gulf of Mexico

Dumas, P.C. (1957) 570456
Copeia, (2):147-8
Range extension of the salamander Plethodon vandykei idahoensis

Reports range of distribution in Idaho, USA.

HR:efa

F

<p>Dundee, D.S. (1957) 570457 <u>Misc. Publ. Mus. Zool. Univ. Mich.</u>, (100):37 p. <u>Aspects of the biology of Pomatiopsis</u> <u>lapidaria</u> Say (Mollusca: Gastropoda: Prosobranchia)</p> <p>F</p>	<p>Dunning, G.M. (Ed.) (1957) 570460 <u>U.S. Atomic Energy Comm., Washington,</u> 53 p. Radioactive contamination of certain areas in the Pacific Ocean from nuclear tests. A summary of data from the radiological surveys and medical examinations</p> <p>M</p>
<p>Dundee, H.A. (1957) 570458 <u>Copeia</u>, (1):52 An electrical shocker for the collection of amphibians and reptiles in the aquatic environment</p> <p>Reports the successful use of shocker in clear, shallow waters for sampling or collecting specimens.</p> <p>HR:efa F</p>	<p>Durán, M. (1957) 570461 <u>Invest. pesq.</u>, 8:97-120 Nota sobre algunos tintinnóideos del plancton de Puerto Rico (Note on some tintinnoids in the plankton of Puerto Rico)</p> <p>Systematic list with species diagnosis. Notes of distribution and morphology. One species is new.</p> <p>FAO:glk M</p>
<p>Dunn, E.R. (1957) 570459 <u>Copeia</u>, (2):77-8 Neotropical frog genera: <u>Prosteraphis</u> versus <u>Hyloxalus</u>, with remarks on <u>Phyllobates</u></p> <p>A taxonomic study containing a list of the species of the genus <u>Phyllobates</u> and their distribution.</p> <p>HR:hr F</p>	<p>Durand, J.H. (1957) 570462 <u>Bull. sta. Aquic. Pêche Castiglione</u>, (8): 41-56 Etude pétographique de quelques vases dragués au large de Tighzirt (1954) et au large de Castiglione (1955) (Petographic study of some samples dragged off Tighzirt (1954) and off Castiglione (1955))</p> <p>Gives the results of different analyses.</p> <p>FAO:hr, M</p>

<p>Durchon, M. (1957) 570463 <u>C.R.Acad.Sci., Paris, 244:1283-6</u> Rôle du proventricule dans le déterminisme de la stolonisation chez les syllidiens (Annélides polychètes) (Role of the proventriculus in determinism of stolonization in the Syllidae (Polychaete annelids))</p> <p>Ill. note on mutilation experiments with <u>Trypanosyllis zebra</u>.</p> <p>FAO:sjh M</p>	<p>Eddie, G.C. (1957) 570466 <u>World Fish., October 1957,:104-8</u> The design of the SIR WILLIAM HARDY</p> <p>Some requirements for and solutions of design problems of an experimental vessel for the Torry Research Station, Aberdeen, Scotland [see World Fishing 1955:43-77].</p> <p>FiB:sjh M</p>
<p>Dyk, V. (1957) 570464 <u>Biológia, 12:333-51</u> Dynamika endoparasitů ryb tatranských jezer (Dynamic of the endoparasites by fishes in lakes in flight Tatra)</p> <p>Seasonal and year-to-year variations in the occurrence of parasites and discussion on the possible influence of the long winters and hot summers on their abundance and seasonal occurrence. The parasites investigated were: <u>Crepidostomum farionis</u> and <u>Noocchinorhynchus rutili</u>.</p> <p>FAO:tl F</p>	<p>Edgerton, H.E. (1957) 570467 <u>Deep-Sea Res., 4(4):287</u> Nylon rope for deep-sea instrumentation</p> <p>Notes on nylon rope tests and formula for free descent, time of the rope..</p> <p>GLK:tl M</p>
<p>Eagleson, P.S. (1957) 570465 <u>Trans.Amer.geophys.Un., 38(5):763</u> Discussion of "Properties of shoaling waves by theory and experiment"</p> <p>Discussion on the original article by P.S. Eagleson (1956, <u>Trans.Amer.geophys.Un., 37:565-72</u>), on the Stokes' third approximation for wave celerity in relatively shallow water.</p> <p>FAO:tl M</p>	<p>Edmonds, S.J. (1957) 570468 <u>Aust.J.Mar.Freshw.Res., 8:55-63</u> The respiratory metabolism of <u>Dendrostomum cymodoceae</u> Edmonds (Sipunculoidea)</p> <p>Deals with: (1) the consumption of oxygen, the production of carbon dioxide, and the respiratory quotient under aerobic conditions; (2) the ability of the animal to live under anaerobic conditions, and the nature of the end-products of anaerobic metabolism.</p> <p>GLK:sjh M</p>

<p>Edwards, R.W. (1957) 570469 <u>Nature, Lond.</u>, 180:100 Vernal sloughing of sludge deposits in a sewage effluent channel</p> <p>This is associated with the emergence of chironomids. The sudden release of organic material into the water is likely to reduce the oxygen concentration, and promote other conditions adverse to fish.</p> <p>GLK:jae F</p>	<p>Ekman, S. (1957) 570472 <u>Vetenskaps.Handl.</u>, 4(6):172 p. Die gewässer des Abisko-gebietes und ihre bedingungen (The waters of the Abisko area and their conditions)</p> <p>FAO F</p>
<p>Einsle, W. (1957) 570470 <u>Schr.Üst.FischVerb.</u>, 1:10 p. <u>Flussbiologie, Kraftwerke und Fisherei</u> (Biology of rivers, power stations and fishery)</p> <p>F</p>	<p>Elliott, G.F., J. Hanson 570473 and J. Lowy (1957) <u>Nature, Lond.</u>, 180:1291-2 Paramyosin elements in lamellibranch muscles</p> <p>A preliminary account of studies on the structure of muscle fibres and the location of the water-insoluble tropomyosin in the white parts of the adductor muscles of <u>Mytilus edulis</u>, <u>Ostrea edulis</u>, <u>Gryphaea angulata</u>, <u>Pinna nobilis</u> and <u>Merconaria merconaria</u>.</p> <p>GLK:wad M</p>
<p>Eisler, R. (1957) 570471 <u>Growth</u>, 21(3):197-203 The influence of light on the early growth of chinook salmon</p> <p>Reviews literature and reports new experiments on fingerlings of <u>Oncorhynchus tshawytscha</u>.</p> <p>FAO:sjh MF</p>	<p>Elmendorf, C.H. and 570474 B.C. Heezen (1957) <u>Bell Syst.tech.J.</u>, 36:1086 Currents and submarine cables (?)</p> <p>Reports breakages at Magdalena River, Columbia and damage elsewhere in world by turbidity currents, earthquakes and other hazards.</p> <p>:sjh M</p>

<p>Elsworth, R., V. Williams and R.H. Smith (1957) <u>J.appl.Chem.</u>, 7:261-8 A systematic assessment of dissolved oxygen supply in a 20-litre culture vessel</p>	570475	<p>El Wardani, S.A. (1957) <u>Deep-Sea Res.</u>, 4(3):219-20 On the biogeochemistry of igneous detritus</p> <p>Notes on a mineralogical study of mineralogical seston in the sea.</p>	570478
F		GLK:tl	M
<p>Elton, C. (1957) <u>Nature, Lond.</u>, 180:1002 Interspecific competition</p> <p>Review of 581063.</p>	570476	<p>Embrey, L.A. et al. (1957) <u>Washington, National Science Foundation</u>, 51 p. A bibliography for the International Geophysical Year</p>	570479
GLK	MF		MF
<p>el Wakeel, S.K. and J.P. Riley (1957) <u>J.Cons.int.Explor.Mer.</u>, 22(2):181-3 The determination of organic carbon in marine muds</p> <p>A method is described for the analysis of marine muds for organic carbon, based on oxidation with chromic acid and titrimetric determination of the oxidant consumed. An empirical correction factor has been evaluated to correlate the carbon content found with that obtained by combustion. The method can also be used with slight modification for the approximate analysis of plankton.</p>	570477	<p>Enacceanu, V. (1957) <u>Bul.Inst.Cerc.piscic.Roman.</u>, 16(2):83-5 Contributiuni la determinarea productivitatii apelor piscicole (Contribution to determination of productivity of fishing waters). Ru Fr</p> <p>A note on faunal biomass estimation in the Danube flood-basin.</p>	570480
GLK sjs	H	FAO:sjh	F

<p>Engelberg, H. (1957) 570481 <u>Fish.Bull., Haifa, (14):17</u> (An experiment in the freezing of cooked fish). <u>Iw</u></p>	<p>Erickson, W.C. (1957) 570484 <u>Nature, Lond., 179:773</u> Generation of polarized light in the crab <u>Nebula</u></p> <p>A discussion of the mechanics of generation of polarized light emitted by the crab <u>Nebula</u>.</p>
<p>SJH MF</p> <p>Eniutina, R.I. and 570482 M.L. Krykhtin (1957) <u>Zool.Zh., 36(9):1421-2</u> O sluchaiaikh poimki lososei s iaponskimi rybolovnymi kriuchkami v Amurskom limane (On catching salmon with Japanese fish-hooks in the Amur firth)</p>	<p>Erman, F. (1957) 570485 <u>Balık Balıkçılık, 5(7):9-12</u> Kefalların yüzgeç şualarından yaş tayini (The determination of the age of mullets from their fins)</p> <p>Explains the method of determining the age of mullets used in the Hydrobiological Research Institute.</p>
<p>FAO M</p> <p>Ercegovic, A. (1957) 570483 Paper presented at the Comité du Benthos de la Comm.int.expl. de la Médit., Gênes, 10 - 11 Juin 1957 Principes et essai d'un classement des étages benthiques (Principles and test of a classification of benthos zonation)</p>	<p>Erman, F. (1957) 570486 <u>Balık Balıkçılık, 5(10):9-13</u> Haskofal (<u>Mugil cephalus</u>) dan havyar çıkarılması ve hazırlanması (Preparation of caviar from grey mullets)</p> <p>Feature article dealing with the preparation from mullets, in Küçükçekmece Lake, near Istanbul.</p>
<p>FAO M</p>	<p>SJH:sjh MF</p>

<p>Ertl, M. and S. Juriš (1957) 570487 <u>Biológia</u>, 12:352-61 Planktón astatických vôd z oblasti Oravskej priehrady (Plankton of the astatic waters from the Orava-Dam area). Ru De</p>	<p>Esterson, G.L. (1957) 570490 <u>Tech.Rep.Chesapeake Bay Inst.</u>, 14:1-183 The induction conductivity indicator. A new method for conductivity measurement at sea</p>
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Taxonomic account with an indication of relative abundance.

The theory of the method and description of the apparatus.

FAO:tl

F

FAO:tl

M

<p>Eschenberg, K.M. (1957) 570488 <u>Univ.Microfilms</u>, Publ. 21202, 136 p. Sedimentability and biochemical characteristics of pentosenucleic acid complexes in the embryonic and adult sea urchin</p>	<p>Etzion, Y. (1957) 570491 <u>Fish.Bull.</u>, Haifa, (13):16-8 (Boat Owners' Association, its aims and functions). <u>Iw</u></p>
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M

SJH

M

<p>Eschmeyer, P.H. (1957) 570489 <u>Spec.sci.Rep.U.S.Fish Wildl.Serv.</u>, (208):129 p. Note on the subpopulations of lake trout in the Great Lakes</p>	<p>Euler, U.S.v., and E. Östlung (1957) 570492 <u>Acta physiol.scand.</u>, 38:364-72 Effects of certain biologically occurring substances on the isolated intestine of fish</p>
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Contribution to written symposium on subpopulations of fishes (581145). Short note on Salvelinus namaycush stocks.

FAO:sjh

F

MF

Evans, A. (1957) 570493
Dover Publications, New York, 82 p.
The care and breeding of goldfish

F

Ewer, R.F. (1957) 570496
Science, 126:599-603
Ethological concepts

Discussion of 'innate behaviour pattern' and 'self-differentiating responses' in contrast with learned behaviour and suggestion of a reconciliation between the opposed schools of thought. Discussion of 'action-specific energy' in respect of the neural basis to some elements of behaviour.

FAO:glk

MF

Evans, F. (1957) 570494
J.Mar.biol.Ass.U.K., 36:493-9
Sea currents off the Northumberland coast

Observations have been made of the surface currents over a period of 12 months, using a free-floating buoy. A mean vector current was found, setting 114° at 0.1 knot. Currents flowed into the quadrant to the right of downwind except when this would have directed them ashore. A relationship is established between wind speed and current speed.

GLK:hr

M

Ewing, G.C. (1957) 570497
Res.Rev.U.S.Off.nav.Res., Anniversary Issue, :24-8
Oceanography in the United States

Brief review of oceanographic activities in U.S. institutions.

WAD:tl

M

Evans, R.G. (1957) 570495
J.Ecol., 45:245-71
The intertidal ecology of some localities on the Atlantic coast of France

Zonation patterns described for a series of rocky shores from Brittany to the Basque. Discussion of concept of "critical levels" and examination of Doty's (1946) "tide-factor" hypothesis.

FAO:sjh

M

Ewing, W.M., W.S. Jardetzky 570498
and F. Press (1957)
McGraw-Hill, New York, 380 p.
Elastic waves in layered media

M

<p>Eyriès, M. (1957) 570499 <u>Int.hydr.Rev.</u>, 34(1):133-59 La méthode des concordances et l'analyse harmonique par les constantes approchées (The method of concordance and harmonic analysis for the approximate constants)</p> <p>Description of the concordance method for the study of tides.</p> <p>FAO:hr M</p>	<p>F.A.O. Fisheries Division. 570502 Technology Branch (1957) <u>Stud.Rev.gen.Fish.Coun.Medit.</u>, (2), 9 p. Mediterranean trawling - Preliminary observations in the study of Italian trawl nets</p> <p>Observations, using sensitive echo-sounders, on behaviour of trawl made in December 1956 at Anzio, Italy.</p> <p>SJH:sjh M</p>
<p>Ezekiel, M. (1957) 570500 <u>J.Fm Econ.</u>, 39:221-34 Ten years of FAO statistics and economics training centers</p> <p>A review of experience.</p> <p>FAO:sjh MF</p>	<p>F.A.O. (1957) 570503 <u>IPFC Secretariat, FAO Regional Office for Asia and the Far East, Bangkok, 1957</u>, 174 p. Proceedings Indo-Pacific Fisheries Council, 6th Session, Tokyo, 30th September - 14th October, 1955</p> <p>Agenda, summary report of plenaries, recommendations of technical committees; reports of council's observers at other meetings; report of executive committee; review of Council's work; statements by member governments; list of delegates, observers, and of documents issued.</p> <p>SJH:sjh MF</p>
<p>F.A.O. Fisheries Division. 570501 Biology Branch (1957) <u>Stud.Rev.gen.Fish.Coun.Medit.</u>, (1), 35 p. Standardization of biometric and observation methods for Clupeidae (especially <u>Sardina pilchardus</u>) used in fisheries biology</p> <p>A review with proposals for standardization and headings: metric characters (size and length criteria, body dimensions, degree of accuracy of measurements); numerical characters (vertebrae, gill-rakers); scales; sexual maturation; planktonic stages of developing eggs; plan of action for GFCM, bibliography.</p> <p>SJH:sjh M</p>	<p>Fänge, R. (1957) 570504 <u>Nature, Lond.</u>, 180(4578):196-7 An acetylcholine-like salivary poison in the marine gastropod <u>Neptunca antiqua</u></p> <p>Feeding habits of the mollusc are not known, but injections of extracts 1/100th of a gland quickly killed small fishes (<u>Ctenolabrus</u>, <u>Gadus</u>); chemical and physiological tests on paper chromatography also used to assess properties of the substance.</p> <p>GLK:sjh M</p>

Fagerholm, P.O. (1957) 570505
Int.hydr.Rev., 34(2):89-94
 La photogrammetrie dans les laves hydro-
 graphiques Suedois (Photogrammetry
 in Swedish hydrographic surveys)

Account of field and laboratory work
 illustrated by representative photo-
 graphs and maps.

FAO:glk

M

Farrin, A.E., L.W. Scattergood 570506
 and C.J. Sindermann (1957)
Progr.Fish Cult., 19:188-9
 Maintenance of immature sea herring in
 captivity

Detailed description of the capture,
 transportation, holding, feeding and
 disease treatment of Clupea harengus.

WAD:wad

M

Fagerström, Å. (1957) 570506
Svensk Fisk.Tidskr., 66:76-8
 Ett försök att gödsla fiskovatten med
 thomasfosfat (An attempt to
 fertilize fish-waters with Thomas-
 phosphate)

Influence of the fertilization on the
 growth of fish in some small Swedish
 lakes.

FAO:tl

F

Fassett, N.C. (1957) 570509
University of Wisconsin Press, Madison,
 405 p.
 A manual of aquatic plants

Identification keys, figures and
 descriptions of macroscopic hydrophytes
 from Minnesota to Missouri and east-
 ward to Gulf St. Lawrence and Virginia.

:tjj

MF

Farmor, F.R. (1957) 570507
Min.Proc.Instn civ. Engrs, 6:21-44
 The problem of liquid and gaseous
 effluent disposal at Windscale

Reports investigations of offshore
 tidal streams, of mixing and circulation
 of water, and samples of fish, seaweeds
 and bottom mud, in connection with
 radioactive effluents entering the
 Irish Sea.

:sjh

M

Fauvel, P. (1957) 570510
Bull.Res.Coun.Israel, 6B(3-4):213-9
 Contribution à la faune des annelides
 polychètes des côtes d'Israel. II.
 (Contribution to the polychaete annelids
 fauna of the coasts of Israel. II.)

Notes on occurrence of several spp.,
 with illustrated description of Rhodine
loveni Mgr.var. gracilior Tb., genus
 and species new for Mediterranean.

FAO:sjh

M

Fauvel, P. (1957) 570511
Bull. Sea Fish. Res. Sta., Haifa, (13):3-11
 Contributions to the knowledge of the
 Red Sea - No. 1 - Sur quelques annélides
 polychètes du Golfe d'Akaba (On some
 polychaete annelids from the Gulf of
 Aqaba)

List of spp., by families, with notes on
 external features and distribution.

SJH:sjh

M

Fauvel, P. et F. Rullier (1957) 570512
Bull. Inst. franç. Afr. noire, A. Sci. nat.,
 19:373-99

Nouvelle contribution à la faune des
 annélides polychètes du Sénégal (New
 contribution to the polychaete annelids
 fauna of Senegal)

Distributional notes on 30 species.

FLD:plk

M

Fedorov, K.N. (1957) 570513
C.R. Acad. Sci. U.R.S.S., 116:393-6

O godovyykh i polugodovyykh kolebaniyakh
 obshchei tsirkulyatsii okeanov
 (Annual & semi-annual fluctuations of the
 general circulation in oceans)

Study of the behaviour of ocean currents
 and their relation to winds.

FLD:plk

M

Felzenbaum, A.I. (1957) 570514
C.R. Acad. Sci. U.R.S.S., 116:217-20
 O szhatiakh i razrezheniyakh lotov v
 arkticheskom basseine (Tightening
 and loosening of ice fields in the
 Arctic basin)

Forces which determine the behaviour of
 ice fields. Formulae and indices.

TL:go

M

Fel'zenbaum, A.I. (1957) 570515
C.R. Acad. Sci. U.R.S.S., 113(2):307-10

(Theoretical principles of calculating
 ice-drift in the central Arctic basin).
Ru

Field, H. (1957) 570516
University of Miami Press, Coral Gables,
Florida, 464 p.

Bibliography on southwestern Asia: IV.
 A fourth compilation

Includes numerous references to aquatic
 organisms and fisheries, especially to
 publications dated January 1 - December
 31, 1956 but with some earlier titles.
 Author index.

GLK:sjh

FM

Fields, P.E. (1957) 570517
Sci.Mon., N.Y., 85:10-22
Guiding migrant salmon

Economic and technical aspects of maintaining salmon stocks in waters being used for power, irrigation and industrial purposes. Review of research on fish behaviour relevant to this problem.

FAO:wad

F

Fingerman, M. (1957) 570520
Biol.Bull., Wood's Hole, 112(1):7-20
Relation between position of burrows and tidal rhythm of Uca.

Analysis of tidal and semilunar rhythms of colour change with reference to the role of water level as determinant of phase of these rhythms. Cycles and their amplitude are described and discussed and the results are discussed in terms of possible exogenous causes of certain of the cycles.

FAO:glk

M

Figuera, A. (1957) 570518
Invest.pesq., 8:3-14
Datos sobre la edad y crecimiento del bacalao (Gadus callarias, L.) de Terranova (Data on the age and growth of cod (Gadus callarias, L.) of Newfoundland)

A report of study based on the reading of otoliths.

FAO:glk

M

Fingerman, M. (1957) 570521
Physiol.Zool., 30(2):142-54
Physiology of the red and white chromatophores of the dwarf crayfish, Cambarellus shufeldti

Study of the behaviour of isolated chromatophores, of endocrine control of pigment dispersion in isolated chromatophores, and of chromatophore responses in the entire animal to blood transfusions.

FAO:glk

F

Figuera, A. (1957) 570519
Invest.pesq., 7:49-97
Moluscos de las playas de la ría de Vigo (Molluscs of the beaches of the "Ría de Vigo"). En

Growth and reproduction of Tapes decussatus, Tapes pallestra and Cardium edule have been studied. Growth is reported by a formula for change in volume. Frequency of spawning and its relation with water temperature are reported. Abundance of larvae was observed.

FAO:glk

M

Fingerman, M. (1957) 570522
Tulane Stud.Zool., 5(6):139-47
Endocrine control of the red and white chromatophores of the dwarf crayfish, Cambarellus shufeldti

Describes experiments in which eyestalk and nervous organ extracts were injected into one-eyed crayfish.

FAO:sjh

F

Fingerman, M. and 570523
 L.D. Fairbanks (1957)
Comm.Fish.Rev., 19(11):10
 Structure and function of the kidney in
 the oyster

A note on experiments with Crassostrea
virginica.

FAO:sjh

M

Fingerman, M. and 570526
 M.E. Lowe (1957)
Tulane Stud.Zool., 5(7):151-71
 Hormones controlling the chromatophores
 of the dwarf crawfish, Cambarellus
shufeldti: their secretion, stability,
 and separation by filter paper
 electrophoresis

Describes experiments introducing
 injections of blood and tissue extracts.

FAO:sjh

F

Fingerman, M. and 570524
 L.D. Fairbanks (1957)
Tulane Stud.Zool., 5:55-68
 Heat death and associated weight loss
 of the oyster Crassostrea virginica

Oysters survived temperatures below 35°C
 but above 41°C appreciable death and
 weight loss occurred. Weight losses
 have been interpreted as due primarily
 to loss of body fluid.

FAO:sjh

M

Finn, D.B. (1957) 570527
Sea Frontiers, 3:180-6
 Radio-activity and world fisheries

Discussion of the increase in the use and
 production of radio-active materials and
 of the growing problem concerning the
 disposal of radio-active wastes.

FAO:glk

MF

Fingerman, M. and 570525
 M.E. Lowe (1957)
Physiol.Zool., 30:216-31
 Influence of time on background upon
 the chromatophore systems of two
 crustaceans

Experiments to yield information on
 control of the chromatophores of the
 dwarf crayfish, C. shufeldti, and the
 fiddler crab, U. pugilator, and to
 determine whether changes occurred in
 the chromatophores, blood, and
 neurosecretory cells of the circum-
 oesophageal connectives while the
 organisms were kept on black and on
 white backgrounds.

FAO:glk

M

Fish, G.R. (1957) 570528
Fish.Publ., Lond., 10:68 p.
 A seiche movement and its effect on the
 hydrology of Lake Victoria

Investigation of the periodic
 fluctuations of T and O₂ as caused by
 internal seiche; influence of the wind
 as the initiating factor of the seiche,
 influence of the bottom deposits on the
 O₂ content of deep water and its
 influence on the nutrient exchange
 between the mud and water above;
 influence of thermal stratification on
 the distribution of plankton.

FAO:tl

F

Fleminger, A. (1957) 570529
Fish.Bull., U.S., 57(117):355-63
New calanoid copepods of the families
Actideidae, Euchaetidae, and Stephidae
from the gulf of Mexico

A description of Bradyidius arnoldi,
Euchaeta paraconcinna and Stephos
deichmannae.

FAO:glk

M

Flickinger, R.A. (1957) 570532
Biol.Bull., Wood's Hole, 112(1):21-7
Evidence from sea-urchin-sand dollar
hybrid embryos for a nuclear control of
alkaline phosphatase activity

Examination of the activity of alkaline
phosphatase in Strongylocentrotus
purpuratus and Dendraster excentricus
embryos.

FAO:glk

M

Fleminger, A. (1957) 570530
Fish.Bull., U.S., 57(116):347-54
New genus and two new species of
Tharybidae (Copepoda Calanoida) from
the Gulf of Mexico with remarks on
the status of the family

Briefly reviews the family and discusses
salient characters common to
Tharybidae, Scolecithricidae, Phaennidae,
and Diaxidae. A new genus Parundinella
is defined and compared to other genera
of the family in a synoptic key. The
new species Parundinella spinodenticula
and P. manucula are described from the
Gulf of Mexico.

FAO:hr

M

Florida State Board of 570533
Conservation, Marine Fisheries
Research (1957)
Salt.Wat.Gamefish Res.Newsletter., 10
The future of the salt water game
fishing

FAO

M

Fleminger, A. (1957) 570531
Tulane Stud.Zool., 5(2):19-34
New calanoid copepods of Pontella Dana
and Labidocera Lubbock with notes on
the distribution of the genera in the
Gulf of Mexico

Describes three new calanoid copepods
from Gulf of Mexico: Pontella mimoco-
rami, P. polydactyla and Labidocera
mirabilis. Records of previously known
species of Pontella and Labidocera
are charted and their distributional
patterns in the Gulf of Mexico are
discussed.

FAO:sjh

M

Florida. State University. 570534
Tallahassee. (1957)
Tallahassee, Fla., 16 p.
The Oceanographic Institute 1957-1958

FAO

M

<p>Fogg, G.E. (1957) 570535 <u>J.gen.Microbiol.</u> (Symposium on plankton), 16:294-97 Relationship between metabolism and growth in plankton algae</p> <p>Discussion on the growth phases in the culture, the importance of extracellular products on the growth, and comparison of the culture growth to the growth of natural populations.</p>	<p>Forrest, J. (1957) 570538 <u>Bull.Inst.franç.Afr.noire, A.Sci.nat.</u>, 19:501-10 Mise au point sur les <u>Brachynotus</u> de Méditerranée et d'Afrique occidentale: <u>Brachynotus sexdentatus</u> Risso et <u>Brachynotus atlanticus</u> nov.sp. (Description of <u>Brachynotus</u> of Mediterranean Sea and West Africa: <u>Brachynotus sexdentatus</u> Risso and <u>Brachynotus atlanticus</u> nov.sp.)</p> <p>Discussion of the status of these species and description of the new species.</p>
<p>FiB:tl MF</p>	<p>FAO:glk M</p>
<p>Folk, R.L. and W.C. Ward (1957) 570536 <u>J.sediment.Petrol.</u>, 27:3-26 Brazos River bar: a study in the significance of grain size parameters</p> <p>MF</p>	<p>Forrester, A.L. (1957) 570539 <u>Wat.Waste Treatm.J.(Wat.Sanit.Engr)</u>, 6:353-6 Disposal of radio-active waste effluents from small industrial nuclear power plants</p> <p>MF</p>
<p>Follmann, G. (1957) 570537 <u>Planta</u>, 48:393-417 Crown plasmolysis and the contraction of vacuoles. II. Plasmolysis in response to stimuli by marine plankton diatoms</p> <p>GLK:sjh</p>	<p>Foster, A.B. and 570540 R.H. Hackman (1957) <u>Nature, Lond.</u>, 180:40-1 Application of ethylenediaminetetra- acetic acid in the isolation of crustacean chitin</p> <p>Biochemistry of the cuticle of <u>Cancer</u> <u>laxurus</u>.</p> <p>M</p>

Found, H.R. and 570541
 R.R. Logie (1957)
Circ. Atlant. biol. Sta., gen. Ser., (29):
 2 p.
 Rehabilitation of disease-depleted
 oyster fisheries

Brief review of epidemics in Prince
 Edward Is., New Brunswick and Nova
 Scotia, with notes on the 3-year
 programme for rehabilitation of stricken
 areas.

FAO:efa

MF

Fowler, H.W. (1957) 570542
Ichthyol. Notes, 1:65-72
 Notes on Australian fishes

A list of species from Queensland,
 New South Wales, and Lady Musgrave
 Island.

GLK:hr-

M

Fox, H.M. (1957) 570544
Nature, Lond., 179:148
 Haemoglobin in Crustacea

See 584872.

GLK

MF

France, Comité Central des 570545
 Pêches Maritimes (1957)
Paris, 45 p.
 Rapport sur la production de l'industrie
 des pêches maritimes en 1956 (Report
 on the production of the maritime
 fisheries in 1956)

M

Fox, D.L. (1957) 570543
 In "The Physiology of Fishes". Vol. II.
 Behaviour. Edited by M.E. Brown,
 Academic Press Inc., Publishers, New
 York, pp.367-85
 The pigments of fishes

FAO

MF

Francis-Boeuf, C. (1957) 570546
Presses universitaires de France,
Paris, 128 p.
 Les Océans (The Oceans)

3rd edition entirely revised by
 Bourcart, J. and V. Romanovsky.

M

Frank, P.W., C.D. Boll 570547
and R.W. Kelly (1957)
Physiol.Zool., 30(4):287-304
Vital statistics of laboratory cultures
of Daphnia pulex De Geer as related to
density

Age and density-specific survivorship,
birth, and growth rates have been
measured in experimental Daphnia cohorts
at seven numerical densities.
Implications of these relations for
prediction of a populational model are
discussed.

FAO:glk

F

Freeman, B.O. (1957) 570550
Miss.Gamc Fish, 20(6):5 and 11
What is a fisheries biologist?

Popularly written explanation with
special reference to work in the U.S.

FAO:wad

MF

Fraser, F.C. (1957) 570548
Aust.Zool., 12:284-92
The nymphs of Synlestes tropicus Tillyard,
Chorismagrion risi Morton, Oristicta
filicicola Tillyard and Lestoides
conjuncta Tillyard: with description of
the female of the latter and further
notes on the male

Taxonomic notes and description of
nymphs of Odonata.

FAO:hr.

F

Freeman, J.C., Jr. 570551
and L. Baer (1957)
Trans.Amer.geophys.Un., 38(4):483-94
The method of wave derivatives

The equations for two-dimensional time-
dependent flow of an incompressible
fluid with a free surface are
reformulated in this paper. These are
made up of linear combinations of the
motion and continuity equations.
Applied to the motion of a mound of
water in a flat-bottom sea.

GLK:tl

M

Frassetto, R. and 570549
J. Northrop (1957)
Deep-Sea Res., 4:138-46
Virgin Islands bathymetric survey

Freeman, P. (1957) 570552
Bull.Brit.Mus.(nat.Hist.), 5(9):321-426
A study of the Chironomidae (Diptera)
of Africa south of the Sahara

M

F

Freeman, P. (1957) 570553
Résult.sci.Explor.hydrobiol.Kivu, Eduard
and Albert, 3(2):205-21
 Chironomidae (Diptera, nematocera) -
 Imagines (Pictures)

Fried, Z. (1957) 570556
Fish.Bull., Haifa, (13):33-5
 (Use of power block for ring net hauling)
Iw
 Illustrated.

F

SJH:sjh

M

Fridman, R. (1957) 570554
Bull.Com.cent.Océanogr., 9(9):508-10
 Sur des amas périodiques de matériel plus
 grossier à la surface de certaines
 plages sabieuses (On the periodic
 accumulation of heavier material on the
 surface of certain sandy beaches)

Note of observations made.

Fried, Z. and Y. Assaf (1957) 570557
Fish.Bull., Haifa, (13):31-3
 (To the problem of trawl net study). Iw
 Short illustrated article.

FAO:glk

M

SJH:sjh

M

Fried, Z. (1957) 570555
Fish.Bull., Haifa, (11):26-8
 (Tuna fishing with the ring net). Iv

Ill. article.

Frost, W.E. (1957) 570558
Nature, Lond., 179:594
 First record of the elver of the African
 eel Anguilla nebulosa labiata Peters

Based on a 1956 collection from
 Tanganyika which also included first
 elvers of Anguilla bicolor bicolor to
 be recorded from mainland of Africa
 (second record for African fresh waters).

SJH:sjh

M

FiB:wad

F

<p>Frost, W.E. (1957) 570559 <u>Piscator</u>, (38):3 p. A note on eels (<u>Anguilla</u> spp.).</p> <p>Notes on the identity and distribution of eels in the Zambesi river system based on collections made in 1954-56.</p> <p>SJH:wad F</p>	<p>Furshpan, E.J. and 570562 D.D. Potter (1957) <u>Nature, Lond.</u>, 180(4581):342-3 Mechanism of nerve-impulse transmission at a crayfish synapse</p> <p>Experiments with <u>Astacus fluviatilis</u> to test the hypothesis that a one-way transmission process can take place by means of an 'electrical' mechanism in which the local currents can cross the synaptic membrane in only one direction.</p> <p>GLK:glk F</p>
<p>Fukuhara, E. (1957) 570560 <u>Bull.Hokkaido reg.Fish.Res.Lab.</u>, (16):70-3 (Ecological studies on <u>Iridophycus cornucopiae</u> (P. et R.) Setch. et Gardn. 6. On the shedding of the spores (I)) Ni En</p> <p>Laboratory studies throughout 1956 showed hardly any diurnal variation in shedding rate, nor any effect of tides or temperature.</p> <p>FAO:sjh M</p>	<p>Furth, F.R. (1957) 570563 <u>Res.Rev.U.S.Off.nav.Res., Anniversary Issue</u>, :14-6 The Navy's stake in underwater acoustics</p> <p>The importance of sound propagation investigations in the sea.</p> <p>WAD:tl M</p>
<p>Furnestin, M.L. (1957) 570561 <u>Rev.Trav.Inst.Pêches marit.</u>, 21(1/2), 356 p. Chaetognaths et zooplancton du secteur Atlantique marocain (Chaetognaths and zooplankton of the Atlantic Moroccan region)</p> <p>Description of the environment and list of the species encountered; ecological observations on certain groups with detailed account of the morphology and ecology of the chaetognaths. Discussion of distribution of the zooplankton and of the influence of hydrographical factors on the annual planktonic cycle, with definition of plankton indicators of Moroccan waters.</p> <p>FAO:glk M</p>	<p>Furukawa, A. (1957) 570564 <u>Bull.Jap.Soc.sci.Fish.</u>, 23:124-37 (Recent advances in measurement of aquatic suspension). <u>Ni</u></p> <p>A review; ill., with full bibliography.</p> <p>SJH:sjh M</p>

Furukawa, I. et al. (1957) 570565
Rep.Nankai reg.Fish.Res.Lab., 6:46-76
 (Study on the tuna long line fishery in
 the East China Sea. I.) Ni En

Catch trends; gear and methods used,
 relation of bait to size of catch;
 correlation of hook-rate and monthly
 catch and relation of fishing effort
 to migrations; spp. composition
 (swordfish, striped marlin, yellowfin
 tuna, white marlin, sailfish).

FAO:sjh

M

Gaarder, K.R. and 570568
 J. Markali (1957)
Nytt Mag.Bot., 5:1-5
On the coccolithophorid *Crystallolithus*
hyalinus n. gen., n. sp.

A diagnosis, based mainly on electron
 micrographs, of a new coccolithophorid
 genus with one species. A description
 is given of the cell as seen in the
 light microscope, the coccolith
 structure is discussed and likewise the
 probable relation to some other
 coccolithophorids.

FAO:tl

MF

G., C.H. (1957) 570566
J.Ecol., 45:612-16
 British Ecological Society. Autumn
 meeting at Southampton, September
 22nd-24th, 1956

Includes account of symposium on the
 ecology of *Spartina townsendii*, with
 contributions by C.E. Hubbard,
 E.M. Uren, P.A. Caldwell, P.J. Goodman
 and D.S. Ranwell; papers on 'A new grab
 for the quantitative sampling of mud'
 (J.B. Ford) and 'Boring activity of the
 gribble *Limnoria tripunctata* Menzies -
 Isopoda (S.K. Eltringham).

FAO:sjh

M

Galowski, K. (1957) 570569
Ann.Mus.zool.polon., 16(17):224-319
Przegląd krajowych gatunków z rodzaju
Rhantus Dejean (Coleoptera, Dytiscidae)
 (Review of the Polish species of the
 genus *Rhantus* Dejean (Coleoptera,
 Dytiscidae)

A revision of ten species of the genus
 including information on their ecology
 and distribution.

FAO:hr

F

G., C.H. (1957) 570567
J.Ecol., 45:604-7
 British Ecological Society. Spring
 meeting, London, March 27th-28th, 1956

Account of symposium on 'Production',
 which includes papers on 'Marine
 plankton production' (J. Corlett),
 'Production of chironomids in lakes'
 (J.H. Mundi), 'Estimates of fish
 production and its exploitation'
 (E.D. Le Cren).

FAO:sjh

MF

Gal-Paz, M. (1957) 570570
Fish.Bull., Haifa, (13):35-6
 (Report on the use of hybrid net on F/V
 Tzofia). Iw

SJH

M

Gameson, A.L.R. (1957) 570571
Challenger Soc., 3(9):32
The Thames estuary and its pollution.
III. Rate of solution of atmospheric
oxygen

Abstr. of paper read at Joint Meeting
of the Water Pollution Research
Laboratory, Stevenage; and Zoological
Society of London, Regent's Park,
London. 24th and 25th January, 1957.
Content as per title.

SJH:efa

MF

Garnaud, J. (1957) 570574
Bull.Inst.océanogr.Monaco, 1096:1-10
Ethologie de Dascyllus trimaculatus
(Rüppell) (Ethology of Dascyllus
trimaculatus (Rüppell))

Contains information on behaviour,
spawning, eggs and larvae collected
during four years of study of the
species in an aquarium.

FAO:hr

M

Ganapati, P.N. and 570572
D.V. Subba Rao (1957)
Curr.Sci., 26(11):347-8
On upwelling and productivity of
the waters off Lawson's Bay,
Waltair

Records with bathythermograph
readings, the variations in salinity,
phosphates, silicates, phyto-
plankton volume and plant pigment
value on the 10 fathom line
from January to April during
progressive rise and fall of
upwelling to demonstrate the

Garrick, J.A.F. (1957) 570575
Bull.Mus.comp.Zool.Harv., 116:171-90
Studies on New Zealand ~~Elasmobranchii~~
Part VI. Two new species of Etmopterus
from New Zealand

M

570572
(Card 2)
latter's effect on near shore
waters.

FAO:tjj

M

Garrod, D.J. (1957) 570576
E.A.F.R.O. Pamphlet, (1)
A review of Lake Victoria fishery
service records 1951-1956

Brief survey of catch records and
notes on individual species and fish
landings taken by L.V.F.S.

swad

F

<p>Garrod, D.J. (1957) 570577 <u>Suppl. Publ. E. Afr. Fish. Res. Org.</u>, (2), 17 p. An analysis of records of gillnet fishing in Pilkington Bay, Lake Victoria</p> <p>Describes results of fishing operations, Dec. 1954 to Nov. 1956, designed to assess the composition of fish populations</p>		<p>Gehringer, J.W. (1957) 570580 <u>Fish. Bull., U.S.</u>, 110:139-71 Observations on the development of the Atlantic sailfish <u>Istiophorus americanus</u> (Cuvier), with notes on an unidentified species of Istiophoridae</p> <p>Content as per title.</p>	
GLK:wad	F	FAO:efa	M
<p>Gasch, A. (1957) 570578 <u>Öst. Fisch.</u>, 10(6/7):80-90 Die Zatorer Methode der wirksamen Bekämpfung der Bauchwassersucht der Karpfen (The Zator method successfully applied against ascites of carp)</p> <p>Method described by Z. Rychlicki and St. Zarnecki in <u>Z. Fisch.</u></p>		<p>Goitler, L. (1957) 570581 <u>Biol. Rev.</u>, 32(3):261-95 Die sexuelle Fortpflanzung der pennaten Diatomeen (Sexual propagation of pennate Diatoms)</p> <p>Description of copulation mechanism, sex differentiation, sex determination and various developmental questions.</p>	
FAO:tl	F	FAO:tl	MF
<p>Gauld, D.T. (1957) 570579 <u>Nature, Lond.</u>, 179:325-6 A peritrophic membrane in calanoid copepods</p> <p>Discusses formation and function of membrane and describes structure and movements of mid-gut.</p>		<p>Geoghegan, M.J. (1957) 570582 <u>New Phytol.</u>, 56(1):71-80 The effect of some substituted methylureas on the respiration of <u>Chlorella vulgaris</u> var. <u>viridis</u></p> <p>Account of studies on the effect of composition of culture medium on inhibitory effects of the compounds on growth and respiration of this sp.</p>	
GLK:efa	MF	FAO:efa	F

George, E.A. (1957) 570583 <u>J.Mar.biol.Ass.U.K.</u> , 36(1):111-14 A note on <u>Stichococcus bacillaris</u> Naeg. and some species of <u>Chlorella</u> as marine algae Several strains of <u>Stichococcus bacillaris</u> Naeg. and of the marine <u>S. cylindricus</u> Butcher were all found to fit morphologically in Naegeli's species. Both the marine and non-marine strains grow well in either fresh- or sea-water media. <u>S. cylindricus</u> must therefore be regarded as a synonym of <u>S. bacillaris</u> . Three marine <u>Chlorella</u> strains including <u>C. ovalis</u> Butcher and <u>C. stigmatophora</u> Butcher were also found to be quite unexacting about salinity. The significance of small differences, particularly of growth rate, is discussed with regard to non-sexual organisms. HR:hr MF	George, M.G. (1957) 570586 <u>Curr.Sci.</u> , 26(12):398-9 On the swim-bladder of <u>Anabas testudineus</u> (Bloch) Anatomical description. FAO:glk F
George, F. (1957) 570584 <u>Proc.U.N.reg.cartogr.Conf.Asia and Far E.</u> , 2:85-9 Physical background surveys for a study of natural resources for agriculture MF	Gerking, S.D. (1957) 570587 <u>Ecology</u> , 38:219-26 A method of sampling the littoral macrofauna and its application The purpose of this work is to describe and test a method of separating the benthic macrofauna from the phytomacrofauna in the littoral zone of a lake, by removing the plants from a square frame and sampling the benthos in the same area with an Ekman dredge. FAO:sjh F
George, J.L., R.F. Darsie, Jr. and P.F. Springer (1957) 570585 <u>J.Wildlife Mgmt</u> , 21(1):42-51 Effects on wildlife of aerial applications of Strobane, DDT, and BHC to tidal marshes in Delaware A study to ascertain the effect on wildlife, if any, of the use of a new insecticide, Strobane, for mosquito control on tideland areas. Comparisons were made with DDT and BHC. Results were measured in terms of mortalities and of avoidance reaction of animals to presence of the insecticide. FAO:glk MF	Gessner, F. (1957) 570588 <u>VEB Deutscher Verlag der Wissenschaften, Berlin</u> , 426 p. Meer und Strand (The sea and the beach) Textbook on marine ecology with special emphasis on the North Sea and the Baltic. FAO:tl M

<p>Geyer, J.C. and G.T. Bryant. (1957) <u>Paper presented at the Thirty-Eighth Annual Meeting, Washington, D.C., April 29 - May 2, 1957</u> The travel time of radioactive wastes in natural waters</p>	570589	<p>Gibor, A. (1957) <u>Nature Lond.</u>, 179(4573):1304 Conversion of phytoplankton to zooplankton</p> <p>Determination of food coefficient of <u>Artemia</u> with different amounts of available food.</p>	570592
M		GLK:glk	M
<p>Gibbs, R.H. (1957) <u>Tulane Stud.Zool.</u>, 5:175-203 Cyprinid fishes of the subgenus <u>Cyprinella</u> of <u>Notropis</u>. III. Variation and subspecies of <u>Notropis venustus</u> (Girard)</p> <p><u>Notropis venustus</u> is redescribed and its three subspecies <u>N. v. venustus</u>, <u>N. v.</u> <u>cercostigma</u> and <u>N. v. stigmaturus</u> are characterized and their synonyms given together with the distribution of their component five races.</p>	570590	<p>Giger, F. and W. Einsele (1957) <u>Öst.Fisch.</u>, 10(6/7):77-80 Bericht über den Fang einer riesigen Bachforelle, die Ergebnisse ihrer fischerici-biologischen Untersuchung und über eine Methode zur Wiederbelebung erstickter Fische (Report on the catch of giant trout (<u>Salmo fario</u>), the results of its biological examination, and a method for the reanimation of suffocated fish)</p> <p>Content as per title.</p>	570593
FAO:hr	F	FAO:efa	F
<p>Gibbs, R.H., Jr. (1957) <u>Deep-Sea Res.</u>, 4(4):230-7 A taxonomic analysis of <u>Myctophum affine</u> and <u>M. nitidulum</u>, two lantern-fishes previously synonymized, in the western North Atlantic</p> <p>Content as per title.</p>	570591	<p>Giletti, B.J. and F. Bazan (1957) <u>Paper presented at the Thirty-Eighth Annual Meeting, Washington, D.C., April 29 - May 2, 1957</u> Near-surface ocean circulation from tritium measurements</p>	570594
FAO:ofa	M		M

<p>Gilis, C. (1957) 570595 <u>Zeewetenschappelijk Instituut, Oostende,</u> (1):30 p. De Haringcampagne 1956-57 (24 juli 1956 - 19 januari 1957) (The herring season 1956-57 (24 July 1956 - 19 January 1957)). <u>Fr</u></p> <p>Information on the fisheries and on length, composition, weight, maturity age, growth, vertebrae number of the catch.</p> <p>GLK:hr M</p>	<p>Gladkov, N.A. (1957) 570598 <u>C.R.Acad.Sci.U.R.S.S., 112:159</u> (New data concerning vertebrates of Arctic Yakutia (the Tixy bay)). <u>Ru</u></p> <p>M</p>
<p>Gillard, A. (1957) 570596 <u>Résult.sci.Explor.hydrobiol.Tanganyika,</u> 3(6) Rotifères (Rotifers)</p> <p>A catalogue of 62 species of rotifers including three new species, 20 new forms for the Belgian Congo fauna, and several not previously recorded in Africa.</p> <p>FiB:hr F</p>	<p>Glaessner, M.F. (1957) 570599 <u>Evolution, 11:178-84</u> Evolutionary trends in crustacea (Malacostraca)</p> <p>An outline of genetic relations and their interpretation.</p> <p>GLK:hr MF</p>
<p>Gillman, T. and 570597 S.S. Naidoo (1957) <u>Nature,Lond., 179(4566):904-5</u> <u>In vitro</u> effects of heparin and calcium ions on lipaemic serum</p> <p>Brief review of subject and account of experiments on the clearing action of heparin.</p> <p>GLK:efa F</p>	<p>Glover, R.C. (1957) 570600 <u>Penn.Angler, 26(3):2-6</u> There are more smolt in Pennsylvania's future</p> <p>History of introduction (<u>Osmerus mordax</u>), life history, fishing, etc.</p> <p>GLK:wad F</p>

Godfrey, H. (1957) J.Fish.Res.Bd Canada, 14(2):153-64 Mortalities among developing trout and salmon ova following shock by direct- current electrical fishing gear	570601	Goel, P.S. et al. (1957) Deep-Sea Res., 4(3):202-10 The beryllium-10 concentration in deep- sea sediments	570604
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Account of tests to establish
precautionary measures to prevent
damaging eggs when using such
apparatus in waters of similar
conductivity.

The cosmic-ray-produced radioactive
isotope, ^{10}Be (half-life 2.7 million
years) has been discovered in the upper
and lower portions of a 15 m long core
from the sediment of the Pacific Ocean.
A comparatively simple chemical
procedure for its extraction has been
developed.

GLK:efa

F

GLK:tl

M

Godfrey, H. (1957) Progr.Rep.Atl.Cst Sta., (67):19-22 Feeding of eels in four New Brunswick salmon streams	570602
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Electrical sampling carried out 7-8/52;
stomach contents analysis; eels as
predators on salmon fry.

Gokhale, S.V. (1957) Indian J.Fish., 4(1):92-112 Seasonal histological changes in the gonads of the whiting (<u>Gadus merlangus</u> L.) and the Norway pout (<u>G. esmarkii</u> Nilsson)	570605
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Macroscopic description, general
histology and internal changes in the
gonads during the reproductive cycle;
with discussion of interstitial tissue,
origin of germ cells and spermatogenesis
in the testes and of the "corpus luteum"
and follicular degeneration in the
ovary; sea temperature and development
of gonadal tissue.

FAO:sjh

MF

GLK:glk

M

Goedecke, E. (1957) Seewart, 18:9-22 Das merkwürdige Verhalten der Eiswinter 1953/54 bis 1955/56 (The remarkable behaviour of the ice-winters 1953/54-1955/ 56)	570603
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Golvan, Y.J. (1957) Résult.sci.Explor.hydrobiol.Kivu, Eduard and Albert, 3(2):53-64 Acanthocephala des poissons (Acantho- cephala of fishes)	570606
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MF

F

Gong, J.K. et al. (1957)	570607	Gordan, J. (1957)	570610
<u>Proc.Soc.exp.biol.Med.</u> , 95:451-4		<u>Bull.Amer.Mus.nat.Hist.</u> , 112(4):279-393	
Uptake of fission products and neutron-induced radionuclides by the clam		A bibliography of the order Mysidacea	

1180 refs. from 1776 to end of 1955, arranged alphabetically by authors, and indexed by genera (grouped in families and including cross-references to synonyms) and by ten general subjects (including "Distribution" subdivided into "Fresh and brackish water" and "Oceanic" and then further into geographical regions).

M

:sjh

M

Gonse, P.H. (1957)	570608
<u>Biochim.biophys.Acta</u> , 24:267-278	
L'ovogenèse chez <u>Phascolosoma vulgare</u> .	
III. Respiration exogène et endogène de l'ovocyte - Effet de l'eau de mer (Ovogenesis in <u>Phascolosoma vulgare</u> .	
III. Exogenous and endogenous respiration of oocytes. Effect of sea water)	

The oxygen consumption of the coelomic oocytes, at all stages of their growth, have been studied with the diver technique. Three levels of oxidation have been recognized: endogenous respiration, fundamental respiration, and extra-respiration. The significance of exogenous and endogenous conditions in oocytes and eggs is discussed.

FAO:glk

M

Gorbman, A. (1957)	570609
<u>Copeia</u> , (1):41-3	
The thyroid gland of <u>Typhlomolge rathbuni</u>	

The finding of nearly 100 thyroidal follicles in each of two Typhlomolge shows that the species is not athyroid as indicated by other authors. On morphological grounds the thyroidal tissue appears inactive.

HR:hr

F

Gordon, M. (1957)	570612
In "The Physiology of Fishes". Vol. II. Behaviour. Edited by M.E. Brown, Academic Press Inc., Publishers, New York, pp. 431-501	
Physiological genetics of fishes	

FAO

MF

Gordon, M.S. (1957) 570613
Biol.Bull., Wood's Hole, 112(1):28-33
Observations on osmoregulation in the
Arctic char (Salvelinus alpinus L.)

Data are presented on plasma freezing
point, chloride and potassium, muscle
solids, chloride, and potassium.
Physiological differences between
populations of char are indicated.

FAO:glk

F

Gordon, S.M. and 570614
R.H. Backus (1957)
Copeia, (1):17-20
New records of Labrador fishes with
special reference to those of Hebron
Fjord

Distributional and systematic notes on
the species collected with remarks on
the relative abundances of fishes in
Hebron Fjord.

HR:hr

MF

Goreau, T. (1957) 570615
Paper presented at the Inter-Island
Marine Biological Conference, March 31-
April 6, 1957
Calcification in reef corals

Preliminary investigations to determine
calcification rates under conditions
varying as to light intensity;
examination of the role of Zooxanthellae
and carbonic anhydrase.
Abstract in "Report by the Institute of
Marine Biology, University of Puerto
Rico".

HR:glk

M

Gorham, E. (1957) 570616
Limnol.Oceanogr., 2(1):12-21
The chemical composition of lake waters
in Halifax County, Nova Scotia

Analyses for concentrations of total
ions, Na, K, Ca, Mg, HCO₃, Cl, SO₄, and
dissolved organic carbon, as well as
optical density, pH, and specific con-
ductivity, are presented for twenty-three
surface lake waters collected from
heathy spruce forest in Halifax County,
Nova Scotia, during December 1955.
Main factors governing chemical
composition are discussed.

HR:glk

F

Gorham, E. (1957) 570617
Limnol.Oceanogr., 2(1):22-7
The ionic composition of some lowland
lake waters from Cheshire, England

Analyses are presented for the major
dissolved constituents in waters from
nine Cheshire meres. Degree of chemical
aberrance of two of these lakes is
discussed.

HR:glk

F

Gorman, J. (1957) 570618
Copeia, (2):148-50
Recent collections of the California
limbless lizard, Anniella pulchra

Reports collections that fill gaps in
distribution, extend the range, and
allow comment on biosystematics.

HR:efa

F

Gorsky, B. (1957) 570619
Little, Brown and Company, Boston and
Toronto, 305 p.
Vastness of the sea

M

Gottlieb, E. (1957) 570622
Fish.Bull., Haifa, (11):13-5, 18-20
(Age and growth studies of the yellow
striped mullet (Upeneus moluccensis)).
Iw En

Study of otoliths and length frequencies
in Eastern Mediterranean trout catches,
1955 and 1956. Proposal for mesh
regulation.

SJH:sjh

M

Gosner, L.G. and 570620
I.H. Black (1957)
Copeia, (1):31-6
Larval development in New Jersey Hylidae

Study of the variation in diagnostic
characters of larvae of Acris gryllus,
crepitans, Pseudacris nigrita feriarum,
Hyla andersoni, H. crucifer, H. versi-
color versicolor.

HR:hr

F

Gotto, R.V. (1957) 570623
Irish Nat.J., 12:138
A cyclopoid copepod new to British
waters, with a note on its structure

Lichomolgus marginatus on Ascidia
virginea in Strangford Lough, Co. Down.

:jae

F

Gottlieb, E. (1957) 570621
Bergen (typescript)
On the dynamics of the population of coal-
fish, Gadus virens L. in Norwegian waters.
A report on the investigations carried out
in the Institute of Marine Research in
Bergen as a holder of UNESCO Fellowship
in Marine Biology

A report on a review of data filed at the
Institute of Marine Research, Bergen,
Norway. Yields; reproduction, growth and
mortality rates; long-term assessments
of yield as functions of fishing
intensity and selectivity.

SJH:sjl

M

Gougenheim, M.A. (1957) 570624
Int.hydr.Rev., 34(2):103-10
Un astrolabe à prisme de haute précision
(A prism astrolabe of high precision)

Description of the apparatus.

FAO:glk

M

<p>Government Guano Islands 570625 Division (1957) <u>Comm.Industr.</u>, 15:299-312 Annual report for the period 1st September, 1955 to 31st August, 1956</p> <p>Reports on guano production and distribution, sealing, penguins and protection of seabirds and seals.</p> <p>FAO:sjh M :jae F</p>	<p>Grainger, J.N.R. (1957) 570628 <u>Irish Nat.J.</u>, 12(5):129-31 Further observations on the planktonic copepods of Irish lakes</p> <p>Species of <u>Diaptomus</u> in Cork and Kerry lakes.</p>
<p>Graham, J.B. et al. (ed.) (1957) 570626 <u>American Association for the Advancement of Science</u>, Washington 5, D.C., 141 p. Water for industry</p> <p>MF</p>	<p>Grassl, E.F. (1957) 570629 <u>Progr.Fish Cult.</u>, 19(2):85-8 Possible value of continuous feeding of medicated dry diets to prevent and control pathogens in hatchery-reared trout</p> <p>Describes results obtained in treating furunculosis in <u>Salvelinus fontinalis</u> with Aureomycin</p> <p>WAD:wad F</p>
<p>Graham, M. (1957) 570627 <u>Nature, Lond.</u>, 180:410 Dr. Harold Thompson</p> <p>An obituary, with a review of his contributions to fisheries and marine sciences.</p> <p>GLK:sjh M</p>	<p>Graves, M.E. (1957) 570630 <u>Bol.Comp.adm.Guano</u>, 33(7):5-6 El año 1955 - Anomalías en el tiempo de superficie sobre las costas del Pacífico en 1955 (The year 1955 - Anomalies in the surface weather on the Pacific coast in 1955)</p> <p>A meteorological study encompassing analyses of temperatures and winds in western South America.</p> <p>FAO:hr M</p>

Gray, I.E. (1957) 570631
Biol.Bull., Wood's Hole, 112(1):34-42
A comparative study of the gill area of crabs

A comparative study has been made of the size of the gill areas of 16 spp. of brachyuran crabs from six families and representing land, intertidal, and wholly aquatic habitats. The size of the gill area is correlated with both habitat and metabolic activity.

FAO:glk

MF

Green, J. (1957) 570634
New Biol., 23:48-64
Daphnia - The water flea

Review of the morphology, life history and behaviour of Daphnia.

GLK:tl

F

Green, J. (1957) 570632
J.Mar.biol.Ass.U.K., 36(1):41-7
The growth of Scrobicularia plana (Da Costa) in the Gwendraeth estuary

Populations of Scrobicularia plana with densities up to 1025 per m² are found in the Gwendraeth estuary. In a region where the population density was about 500 per m² it was found that some specimens lived for 16-18 years and reached a length of 54 mm. An approximate growth curve is given. There is very little successful settlement of spat in the sampling area.

HR:hr

MF

Greenbank, J. (1957) 570635
Copeia, (2):157
Aggregational behaviour in a freshwater sculpin

Account of observation on the congregation of Cottus aleuticus in Karluk Lake, Kodiak Island.

HR:efa

F

Green, J. (1957) 570633
Nature, Lond., 179:432
Osmoregulation in Asplanchna priodonta

Time per contraction of the complex contractile vesicle of this rotifer lengthens with increasing salinity.

GLK:glk

F

Greenbank, J. (1957) 570636
Spec.sci.Rep.U.S.Fish Wildl.Serv., (202):59 p.
Creel census on the upper Mississippi river

Presents the data obtained from the census and the analysis of these with regard to catch composition, fishing success, and the influence of certain factors (fishing pressure, bait, time of day, sex of fishermen, water temperature, changes in water level, weather, depth of snow).

FAO:glk

F

Greenwood, M.R. (1957) <u>Comm.Fish.Rev.</u> , 19:1-10 Bottom trawling exploration in the Strait of Juan de Fuca - February to March 1956	570637	Grenager, B. (1957) <u>Nytt Mag.Bot.</u> , 5:41-60 Algological observations from the polluted area of the Oslofjord	570640
Some clear trawling areas were found but results were generally poor. Dogfish (<u>Squalus suckleyi</u>) and ratfish (<u>Hydrolagus colliei</u>) dominated the catch but some lingcod (<u>Ophiodon elonga- tus</u>) and cod (<u>Gadus macrocephalus</u>) were caught together with a few rockfish (<u>Sebastes</u> sp.) and flatfishes. Four species of shrimp (<u>Pandalus</u> sp.) were caught by beam trawl in small quantities.		Investigation on the pollution tolerance by different species of sessile algae. (Incl. notes on hydrography and pollution, floral associations and horizontal distribution of species).	
FAO:sjh	M	FAO:tl	M
Greenwood, P.H. (1957) <u>Bull.Brit.Mus.(Nat.Hist.)Zool.</u> , 5:76-97 A revision of the Lake Victoria <u>Haplo- chromis</u> species (Pisces: Cichlidae) - Part II. <u>H. sauvagei</u> (Pfeffer), <u>H. prodromus</u> (Trewavas), <u>H. granti</u> Blgr. and <u>H. xenognathus</u> sp. n.	570638	Griliches, Z. (1957) <u>J.Fm Econ.</u> , 39(1):8-20 Specification bias in estimates of production functions	570641
		Describes application of method relevant to problems of fisheries management.	
	F	FAO:sjh	MF
Greenwood, P.H. (1957) <u>Uganda J.</u> , 21 The fishes of Uganda - III	570639	Grimes, E.D. (1957) <u>Idaho Wildl.Rev.</u> , 9(5):10-3 Trout diet requirements	570642
		Popular article on natural foods and hatching feeding.	
	F	WAD:sjh	F

<p>Grisebach, H., R.C. Fuller (1957) 570643 and M. Calvin <u>Biochim.biophys.Acta</u>, 23(1):34-42 Metabolism of thioctic acid in algae</p> <p>Thioctic acid labelled with sulphur-35 has been prepared and its metabolism by algae has been studied. It is converted by the algae into a number of forms, all of which upon hydrolisis will yield either the disulfide or its sulfoxide.</p> <p>FAO:glk MF</p>	<p>Grusov, E.N. (1957) 570646 <u>Zool.Zh.</u>, 36(6):852-62 A new endoparasitic mollusc - <u>Melpadicola orientalis</u>, gen. n., sp. n., (Family Paedophoropodidae)</p> <p>Morphological description of the mollusc and discussion of its taxonomic status.</p> <p>FAO:glk M</p>
<p>Grosmaire, P. (1957) 570644 <u>Bois For.Trop.</u>, 54 La pêche sur le fleuve Sénégal (Fisheries on the Senegal River)</p> <p>F</p>	<p>Guareschi, C. (1957) 570647 <u>Ric.sci.</u>, 27:2140-3 La Stazione di Biologia Marina del Tirreno dell'Università di Cagliari (The Marine Biological Station of the Tyrrhenian Sea, Cagliari University)</p> <p>Describes the location, equipment and current programme (in planktonology) of the station and projected investigations.</p> <p>FAO:glk M</p>
<p>Gross, W.J. (1957) 570645 <u>Biol.Bull., Wood's Hole</u>, 112(1):43-62 An analysis of response to osmotic stress in selected decapod Crustacea</p> <p>Determinations on <u>Birgus latro</u> Linn., <u>Emerita analoga</u>, Rathbun, and <u>Pachygrapsus crassipes</u> Randall. Describes osmo-regulation as a function of time; discusses evidence on various osmo-regulatory mechanisms and the metabolic work in increased osmotic stress.</p> <p>FAO:glk MF</p>	<p>Gudimovich, P.K. (1957) 570648 <u>Priroda, Moskva</u>, 3:127 Godovoi ratsion tuntsy v Chernom more (Annual consumption of food by tunny in the Black Sea)</p> <p>FAO M</p>

<p>Guerrier, J.P. and W.L. Schultz (1957) <u>Bull.Can.Wildl.Mgmt</u>, 3(5), 12 p. Studies of lake trout and common white- fish in Waterton Lakes, Waterton Lakes National Park, Alberta</p> <p style="text-align: right;">570649</p> <p style="text-align: center;">F</p>	<p>Guilcher, A. (1957) 570652 <u>Norois</u>, 4(15) Quelques aspects et problèmes morpholo- giques et sédimentologiques de l'île d'Ouessant (Some morphologic and sedimental aspects and problems of Ouessant Island)</p> <p style="text-align: center;">M</p>
<p>Gug, M. (1957) 570650 <u>Quart.Bull.S.Pacif.Comm.</u>, 7(3):19-21 Mother-of-pearl industry in French Oceania</p> <p style="text-align: center;">M</p>	<p>Gulf States Marine Fisheries 570653 Commission (1957) New Orleans 16, Louisiana, 33 p. Eighth annual report 1956-1957 to the Congress of the United States and to the governors and legislators of Alabama, Florida, Louisiana, Mississippi, Texas</p> <p>Lists of commissions and committee members; financial statement; account of pertinent research activities by the commission itself and by the States and the U.S. Fish and Wildlife Service.</p> <p>FAO:sjh</p> <p style="text-align: center;">M</p>
<p>Guignot, F. (1957) 570651 <u>Résult.sci.Explor.hydrobiol.Kivu</u>, Edouard and Albert, 3(2):131-69 Haliplidae et Dytiscidae (Coloptera hydraenethares)</p> <p style="text-align: center;">F</p>	<p>Gulland, J. (1957) 570654 <u>Fish.Bull.F.A.O.</u>, 10(4):157-81 Sampling problems and methods in fisheries research</p> <p>A simple introduction to the principles of tackling sampling problems as they arise in fish population studies, particularly with regard to the catches of commercial vessels, and their size and age compositions. Some other problems likely to be met in fisheries biological studies are touched on, but the principles discussed are generally applicable.</p> <p>SJH:sjh</p> <p style="text-align: center;">MF</p>

<p>Gunter, G. (1957) 570655 <u>Copeia</u>, (1):13-6 Predominance of the young among marine fishes found in fresh water</p> <p>Marine fishes in low salinities are smaller than those of the same species in saltier waters and constitute the invaders of fresh water. Differences in the relations of young and old animals to salinity of the water must be taken into account in studies of euryhalinity.</p>	<p>Gunter, G. and 570658 R.W. Menzel (1957) <u>Nautilus</u>, 70(3):84-7 The crown conch, <u>Melongena corona</u>, as a predator upon the Virginia oyster</p> <p>Predation on <u>Crassostrea virginica</u> on U.S.A., Atlantic coast; mode of feeding on this and other species; observations by fishermen and in aquaria.</p>
<p>HR:hr MF</p>	<p>FiB:sjh M</p>
<p>Gunter, G. (1957) 570656 <u>Sea Frontiers</u>, 3:80-6 Mississippi's only marine laboratory</p> <p>Description of the Gulf Coast Research Laboratory, Ocean Springs, and its activities.</p>	<p>Haga, S. et al. (1957) 570659 <u>Bull.Hokkaido reg.Fish.Res.Lab.</u>, 15:23-28 (Growth and age determination of "Komai", <u>Eleginus gracilis</u> (Tilesius)). <u>Ni</u> En</p> <p>Samples of trawlers catch in Hokkaido, winter 1950-51. Growth in length and weight estimated from length frequency distribution and scale and otolith rings.</p>
<p>HR:t1 M</p>	<p>FAO:sjh M</p>
<p>Gunter, G. (1957) 570657 <u>System.Zool.</u>, 6:98-100 Misuse of generic names of shrimp (Family Penaeidae)</p> <p>A discussion of the spelling of the generic name <u>Penaeus</u>.</p>	<p>Hagen, W., Jr. (1957) 570660 <u>Progr.Fish Cult.</u>, 19(1):32-9 Fish foods purchased for federal hatcheries in 1955, compared with 1945 and 1949</p> <p>A review showing increasing emphasis on use of dry meals, fish products and pellets for salmonid feeding.</p>
<p>HR:lr M</p>	<p>WAD:wad F</p>

Hagerman, D.D., F.M. Wellington 570661
and C.A. Villce (1957)
Biol.Bull., Wood's Hole, 112:180-3
Estrogens in marine invertebrates

Describes enzymatic method of assay for estrogens suitable for use with crude tissue extracts. States that only the ovaries of Macra (Spisula) solidissima contain estrogenic material.

FAO:efa

M

Hagihara, B. et al. (1957) 570662
Nature, Lond., 179(4553):249-50
Crystallization of cytochrome c from fish

Techniques of preparation from heart muscle of Katsuwonus vagans, and Thynnus alalunga. Properties are described.

GLK:glk

M

Haines, R.G. (1957) 570663
World Fish., October 1957,:84-6
Asdics for fish detection. Part I

First part of an ill. article which defines problems and possibilities of horizontal echo-ranging from fisherman's point of view.

SJH:sjh

M

Hale, L.J. (1957) 570664
Proc.R.phys.Soc.Edinb., 26(1):19-24
The problem of keeping marine animals

The normal environment of marine animals is surveyed particularly from the point of view of their being kept in captivity, and a successful aquarium is described.

SJH:sjh

M

Hall, J.C. and 570665
H.I. Battle (1957)
Canad.J.Res.(Zool.), 35(5):593-601
Respiratory movements and endurance of frogs at low pressures

Contains the results of investigations of Rana pipiens, R. clamitans and R. sylvatica respiratory movements under reduced pressure, endurance at various pressures at normal atmospheric pressure, and reduced partial pressure of oxygen.

FAO:hr

F

Halldal, P. (1957) 570666
Nature, Lond., 179:215-6
Calcium and magnesium ions in phototaxis of motile green algae

Quantitative investigations on the effect of Ca++ on the negative phototaxis and Mg++ on the positive ion. The Ca/Mg ratio where no phototactic movement occurs is also determined.

GLK:tl

F

Hallock, R.J., D.H. Fry, Jr. 570667
and D.A. La Faunce (1957)
Calif. Fish Game, 43:271-98

The use of wire fyke traps to estimate
the runs of adult salmon and steelhead
in the Sacramento river

III. description of construction and
operation of the traps for Oncorhynchus
tshawytscha and Salmo g. gairdneri.

Catches of these and other spp. per
unit effort.

SJH:sjh

F

Halver, J.E. (1957) 570668
J. Nutrit., 62:225-43

Nutrition of salmonoid fishes. III.
Water-soluble vitamin requirements of
chinook salmon

Feeding experiments on Oncorhynchus
tshawytscha.

FAO:sjh

MF

Hamdorf, K. (1957) 570669
Kurze Mitt. Inst. Fisch Biol. Univ. Hamburg,
(7):1-22

Das allometrische Wachstum der
Wirbelsäule der Heringslarve sowie
dessen Auswirkung auf die Verlagerung
der paarigen und unpaarigen Flossen
(The allometric growth of vertebrae
in herring larvae and its influence on
the shifting of paired and unpaired
fins)

Analysis of the absolute length of
groups of vertebrae in fish of various
sizes from 29.5 mm to 200.0 mm, with
comparison of the growth revealed and
of the shift in relative position of all
fins presumably induced by the
demonstrated allometry.

FAO:glk

M

Hamilton, E.L. (1957) 570670
Sci. Mon., N.Y., 85:294-314

The last geographic frontier: the sea
floor

Illustrated review of sea-bed studies;
gravity seismic and heat flow
measurements; features of the Atlantic
and Pacific floors described; trenches,
fracture zones, seamounts and ranges;
coral atoll formation; deep-sea
stratigraphy; free diving; deep-sea
photography; the bathyscaphe; biblio-
graphy of 70 references.

FAO:sjh

M

Hamming, R.W. (1957) 570671
Sci. Mon., N.Y., 85:169-75

Controlling the digital computer

An account of the possibilities of their
use; popularization of communications
theory; coding theory and programming.

FAO:sjh

MF

Hammond, R.J. (1957) 570672
H.M.S.O. and Longmans, Green and Co.,
848 p.

Food

Includes survey of fish production and
consumption in Britain, 1939-1945.

FAO:sjh

MF

Hamon, M. (1957) 570673
Bull.Soc.Hist.nat.Afr.N., 48(3-4):221-33
Note sur Janickina pigmentifera (Grassi
1881) amibe parasite du segment génital
mâle de Sagitta (A note on Janickina
pigmentifera (Grassi 1881) amoeba
parasite of the male genital segment of
Sagitta)

An investigation of the pigments
characteristic of the species.

FAO:hr

M

Hanks, J.E. (1957) 570674
Biol.Bull.Wood's Hole, 112(3):330-5
The rate of feeding of the common oyster
drill, Urosalpinx cinerea (Say), at
controlled water temperatures

Laboratory investigation on the influence
of the temperature on the intensity of
feeding.

FAO:tl

M

Hanna, H.M. (1957) 570675
Proc.R.Ent.Soc.Lond., (A), 32:47-52
Observations on case-building by the
larvae of Limnophilus politus McLachlan
and L. marmoratus Curtis (Trichoptera:
Limnephilidae)

The case of L. politus is started by the
construction of a belt; that of L. marmo-
ratus by a ventral plate and square.
The growth of the case parallels that of
the larva and increase in size is
achieved by adding to the anterior end
and cutting away from the posterior end.

:jae

F

Harden Jones, F.R. (1957) 570676
In "The Physiology of Fishes". Vol.II.
Behaviour. Edited by M.E. Brown,
Academic Press Inc., Publishers,
New York, pp. 305-22
The swimbladder

FAO

MF

Harding, J.P. (1957) 570677
Résult.sci.Explor.hydrobiol.Tanganyika,
3(6):53-8
Crustacea: Cladocera

A systematic account of the species from
lake Tanganyika, lake Kivu and a pond
near lake Edward.

FiB:hr

F

Hargis, W.J., Jr. (1957) 570678
Limnol.Oceanogr., 2(1):41-2
A rapid live-sexing technique for
Urosalpinx cinerea and Eupleura caudata,
with notes on previous methods

Describes the technique and methods of
testing its reliability.

HR:glk

MF

Harmer, S.F. (1957) 570679
Monogr. Uitkomst. Zool. Gebied Nederl. O.-
Indie, 38:641-1147 (Leiden: E.J. Brill)
 The Polyzoa of the SIBOGA expedition.
 Part 4: Cheilostomata Ascophora, II
 (Ascophora, except Reteporidae, with
 additions to Part II, Anasca)

M

Hart, J.S. (1957) 570682
Canad. J. Res. (Zool.), 35:195-200
 Seasonal changes in CO₂ sensitivity and
 blood circulation in certain freshwater
 fishes

Asphyxiation level of oxygen at various
 levels of CO₂ on the Micropterus salmoi-
des, Ictalurus lacustris punctatus and
Ameiurus nebulosus marmoratus decreased
 with warming of the water; blood
 pressure of the first two species fell
 with seasonal change from winter to
 summer temperature.

FAO:hr

F

Harris, K.E. (1957) 570680
Int. hydr. Rev., 34(2):111-5
 Navigation par perspective (Navigation
 by perspective)

Principle and practical details of the
 system.

Hartman, O. (1957) 570683
Allan Hancock Pacif. Exped., 15(3):211-
 393
Orbiniidae, Apistobranchidae, Paraonidae
 and Longosomidae

Discussion of the systematic with notes
 on the ecology, geographic distribution,
 reproduction and development.

FAO:glk

M

FAO:tl

M

Harrison, A.C. (1957) 570681
Cape Peninsula Publicity Ass. and Cape
Piscatorial Soc., Cape Town, 16 p.
 Freshwater fishing in the Cape south
 western districts, South Africa (with
 notes on the eastern Cape)

Harvey, E.N. (1957) 570684
 In "The Physiology of Fishes". Vol. II.
 Behaviour. Edited by M.E. Brown,
 Academic Press Inc., Publishers,
 New York, pp. 345-66
 The luminous organs of fishes

F

FAO

MF

Harvey, H.W. (1957) 570685
J.Mar.biol.Ass.U.K., 36(1):157-60
Bio-assay of nitrogen available to two
species of phytoplankton in an off-shore
water

A bio-assay of the nitrogen which was
available to two phytoplankton species
with their associated bacteria in an off-
shore water is described. Of the organic
nitrogen normally present in solution in
sea water, an insignificant quantity
appears to be available to the plant-
bacteria community.

HR:tl

M

Hase, E., Y. Morimura 570686
and H. Tamiya (1957)
Arch.Biochem., 69:149-65
Some data on the growth physiology of
Chlorella studied by the technique of
synchronous culture

F

Hasler, A.D., W.J. Wisby 570688
and J.A. Larsen (1957)
Res.Rev.U.S.Off.nav.Res., Anniversary
Issue, :32-5
Salmon, science, and a sense of smell

Popular review of the migration
problems of Pacific salmon.

WAD:tl

MF

Haslett, A.W. (1957) 570689
Sci.News, Harmondsworth, (43):114-5
Research report

Brief account of findings regarding
"Choice of spawning sites by trout"
reported by T.A. Stuart (1956).

GLK:tl

F

Hasler, A.D. (1957) 570687
In "The Physiology of Fishes". Vol.II.
Behaviour. Edited by M.E. Brown,
Academic Press Inc., Publishers,
New York, pp. 187-209
The sense organs. Part III. Olfactory
and gustatory senses of fishes

FAO

MF

Haslett, A.W. (1957) 570690
Sci.News, Harmondsworth, (45):115-7
Research report - Below the Gulf Stream

Review of the article in Admiralty
Bulletin, (90), May, 1957. Note on
deep current measurements in the
Gulf Stream system.

GLK:tl

M

Hatch, R.W. (1957) 570691
N.Y. Fish Game J., 4(1):69-87
Success of natural spawning of rainbow trout in the Finger Lakes region of New York

F

Haven, D.S. (1957) 570694
Ecology, 38:88-97
Distribution, growth and availability of juvenile croaker, Micropogon undulatus, in Virginia

Gives statistical examination of reliability of catch data. Presents and discusses evidence on place and time of spawning, growth, seasonal variations in the pattern of distribution, and on absolute abundance.

GLK:glk

M

Hatch, R.W. (1957) 570692
Progr. Fish Cult., 19(2):89-91
Relative sensitivity of salmonids to DDT

Describes experiments using Salmo salar, S. gairdneri and Salvelinus fontinalis.

WAD:wad

F

Hayes, F.R. (1957) 570695
J. Fish. Res. Bd. Canada, 14(1):1-32
On the variation in bottom fauna and fish yield in relation to trophic level and lake dimension

Examination of the relation of area to depth. Discussion of the ways of studying fish productivity in lakes, and of trophic levels with reference to length of food chain. Examination of productivity index and of a proposed quality index, and of the relation between depth and productivity.

GLK:glk

F

Hauge, H.V. (1957) 570693
Folia limnol. scand., (9):189 p.
Vangsvatn and some other lakes near Voss - A limnological survey in western Norway

Report on an intensive survey covering a whole year: methods, descriptive and comparative limnology. Contains a bibliography of literature on Norwegian lakes up to 1st January 1957.

FAO:wad

F

Haysom, N.M. (1957) 570696
Ichthyol. Notes, 1:139-44
Notes on some Queensland fishes

Short notes on species new to Queensland. The new species Ichthyoscopus fasciatus is described; three species are added to the Australian list.

GLK:hr

M

Heady, E.O. (1957) 570697
J.Fm Econ., 39:360-9
Organization activities and criteria in
obtaining and fitting technical
production functions

Incl. comments on initiating cooperative
research between economists and physical
scientists and considerations in
selecting algebraic forms of functions.

FAO:efa

MF

Healey, E.G. (1957) 570698
In "The Physiology of Fishes". Vol.II.
Behaviour. Edited by M.E. Brown,
Academic Press Inc., Publishers,
New York, pp. 1-119
The nervous system

FAO

MF

Heezen, B.C. (1957) 570699
Deep-Sea Res., 4:105-15
Whales entangled in deep sea cables

Fourteen instances of whales entangled
in submarine cables are reported.
Six cases occurred in about 500
fathoms, with 620 fathoms the maximum
depth reported. All positively
identified were sperm whales (Physeter
catodon).

FAO:glk

M

Heezen, B.C. (1957) 570700
Paper presented at the Thirty-Eighth
Annual Meeting, Washington, D.C.
April 29 - May 2, 1957

Deep-sea physiographic provinces and
crustal structures

M

Hofer, B. (1957) 570701
Fish.Bull., Haifa, (14):10-1
(Limnological research in Britain and
its practical application). Iw

SJH

F

Hela, I. (1957) 570702
Geophysica, Helsinki, 5(3)
Longitudinal and transversal slope of
the Florida current

Relation between transverse slope of
sea surface and mean speed of current is
combined with Torricelli's theorem.
It is shown that the mean speed of the
Florida current gives both the normally
accepted transversal height difference
and longitudinal height difference.

:tl

M

Hela, I., C.A. Carpenter, Jr. 570703
 and J. Kneeland McNulty (1957)
Bull.Mar.Sci.Gulf.Caribb., 7(1):47-99
 Hydrography of a positive, shallow,
 tidal bar-built estuary (Report on the
 hydrography of the polluted area of
 Biscayne Bay)

Hydrographic surveys of the estuary
 with special emphasis on the flushing.

FAO:tl

MF

Henderson, I.F. and 570706
 W.D. Henderson (1957)
Princeton, N.J., 548 p.
 A dictionary of scientific terms

Pronunciation, derivation, and
 definition of terms in biology,
 botany, zoology, anatomy, cytology,
 genetics, embryology, physiology.

:sjh

MF

Hemphill, A.F. (1957) 570704
Copeia, (1):53
 The southern redbelly dace, Chrosomus
erythrogaster erythrogaster, from the
 lower Mississippi river drainage

Reports collections that extend the
 southern range of this sub-species
 and states association with large
 numbers of Campostoma anomalum and
Semotilus atromaculatus.

HR:efa

F

Hennemuth, R.C. (1957) 570707
Bull.interam.trop.Tuna Comm., 2(5):
 174-243

An analysis of methods of sampling to
 determine the size composition of
 commercial landings of yellowfin
 tuna (Neothunnus macropterus) and
 skipjack (Katsuwonus pelamis)

Compares estimates obtained by
 different sampling methods and
 recommends the most efficient
 method for future sampling.

FAO:hr

M

Henderson, G.T.D. (1957) 570705
Bull.Mar.Ecol., 4:180-202
 Continuous plankton records: The
 distribution of young Gadus poutassou
 (Risso)

Study of range, seasonal distribution,
 abundance fluctuations and systematics
 of young stages and eggs of 1212
 specimens taken March-May.

FAO:sjh

F

Henriksson, E. (1957) 570708
Physiol.Plant., 10(5):943-8
 Studies in the physiology of the lichen
Collema. I. The production of extra-
 cellular nitrogenous substances by
 the algal partner under various
 conditions

Laboratory experiments (culture) to
 determine the excretion of combined
 nitrogen by symbiotic algae (Nostoc sp.),
 isolated from the lichen (Collema tenax),
 when the algae is growing with and
 without nitrate under different
 conditions.

FAO:tl

F

Hepper, B.T. (1957) 570709

J.Mar.biol.Ass.U.K., 36(1):33-40

Notes on Mytilus galloprovincialis
Lamarck in Great Britain

Summarizes the chief distinguishing features of Mytilus galloprovincialis in comparison with M. edulis and discusses the synonymy of the species.

HR:hr

M

Herrera, J. and F. Muñoz (1957) 570712

Invest.pesq., 7:33-48

Consideraciones biológicas sobre la composición química de la sardina (Sardina pilchardus Walb.) de Castellón (Biological considerations on the chemical composition of the sardine of Castellon). En

Composition was determined from 70 samples, each of 40 specimens, taken during three and a half years. The fish were all between 125 and 135 mm. Relation between fat content and sexual development was studied, as was the relation between hydration of the proteins and the temperature of surface waters.

FAO:glk

M

Herdman, H.F.P. (1957) 570710

Deep-Sea Res., 4:130-7

Recent bathymetric charts and maps of the Southern Ocean and waters around Antarctica

Some recent bathymetric charts and maps of the Southern or Antarctic Ocean are discussed and some comparisons made between the various interpretations of the relief of the ocean floor. Reference is made to the nomenclature of features on the sea bed, and also to certain aspects of the continental shelf of Antarctica.

FAO:glk

M

Hersey, J.B., et al. (1957) 570713

Paper presented at the Thirty-Eighth Annual Meeting, Washington, D.C., April 29 - May 2, 1957

Seismic study of the ocean floor south-east of the Blake Plateau

M

Herrera, J. (1957) 570711

Invest.pesq., 6:111-22

Datos climáticos del puerto de Castellón y térmicos de las aguas costeras superficiales en relación con la pesca en 1955 (Meteorological data from the harbour of Castellon and temperatures of superficial coastal waters in relation to fishing in 1955)

Meteorological data and surface water temperatures from fishing grounds are summarised for 1955, as possible indicators of upwelling.

FAO:glk

M

Hesse, P.R. (1957) 570714

Hydrobiologia, 11(1):29-39

The distribution of sulphur in the muds, water and vegetation of Lake Victoria

Describes methods used and analytical results obtained from investigations in northern area of the lake, including island soils.

FAO:wad

F

Heuschmann, O. (1957) 570715
Handb.Binnenfisch.Mitteleurop., 3(8):
1-22

Die Hechtartigen Ordnung Haplomi
(Esociformes) (The pikes and related
species order Haplomi (Esociformes))

Biology, ecology and distribution of
pike and related species.

FAO:t1

F

Hida, T.S. (1957) 570718
Spec.sci.Rep.U.S.Fish Wildl.Serv.,
(215):13 p.

Chaetognaths and pteropods as biological
indicators in the North Pacific

Displacement volume and 'group count'
data are analyzed to show general
abundance and distribution, indicating
the existence of faunal zones; relations
with albacore distribution and
temperature-salinity features were
studied.

GLK:glk

M

Heuschmann, O. (1957) 570716
Handb.Binnenfisch.Mitteleurop., 3(8):
23-199

Die Weissfische (Cyprinidae) (White-
fishes (Cyprinidae))

Biology, ecology and distribution of
whitefishes.

FAO:t1

F

Hidaka, K. (1957) 570719
Geophys.Notes, Tokyo, 10(1)
Geostrophic currents and mixing

M

Hewatt, W.G. and 570717
J.D. Andrews (1957)
Proc.Nat.Shellf.Ass., 46(1955):129-33
Temperature control experiments on the
fungus disease, Dermocystidium marinum,
of oysters

Temperatures of 15°C arrested infection
and mortality of the oysters caused
by the disease.

:hr

MF

Hidaka, K. (1957) 570720
Geophys.Notes, Tokyo, 10(1)
Influence of friction on geostrophic
flow; sources of errors in dynamic
computation of ocean currents

M

<p>Higasa, S. and A. Suzuki (1957) 570721 <u>Rep.Nankai reg.Fish.Res.Lab.</u>, 6:1-7 (Biochemical studies on the growth and maturation of fish bodies. I. On the variation of ether-soluble matters of ovaries and livers with gonad development in yellowfin tuna (Part I)). <u>Ni En</u></p> <p>Account of investigations on quantitative changes of fatty constituents in ovaries and livers of <u>Neothunnus macropterus</u> in different stages of sexual maturity.</p> <p>FAO:efa M</p>	<p>Hilder, B. (1957) 570724 <u>Mar.Obs.</u>, 27:215-8 International Symposium on Tropical Cyclones - Held at Brisbane, Queensland, 10th-14th December, 1956</p> <p>Popular review of the present practices and future possibilities and unsolved problems for predicting the tracks of hurricanes.</p> <p>FAO:t1 MF</p>
<p>Higasa, S. and A. Suzuki (1957) 570722 <u>Rep.Nankai reg.Fish.Res.Lab.</u>, 6:8-17 (Biochemical studies on the growth and maturation of fish bodies. II. On the variation of ether-soluble matters of ovaries and livers with gonad development in yellowfin tuna (Part II)). <u>Ni En</u></p> <p>Reports results of 570721.</p> <p>FAO:efa M</p>	<p>Hill, M.N. (1957) 570725 <u>Nature, Lond.</u>, 180:10-3 Geophysical investigations on the floor of the Atlantic Ocean in DISCOVERY II, 1956</p> <p>Review of the seismic refraction, magnetic, bathymetric and photographic work done on the cruises during 1956.</p> <p>GLK:t1 M</p>
<p>Highton, R. (1957) 570723 <u>Copeia</u>, (2):107-9 Correlating costal grooves with trunk vertebrae in salamanders</p> <p>Gives the results of estimation of the number of trunk vertebrae by counting costal grooves in <u>Plethodon</u> and other salamanders.</p> <p>HR:hr F</p>	<p>Hincks, W.D. (1957) 570726 <u>Résult.sci.Explor.hydrobiol.Tanganyka</u>, 3(6):39-42 Dermaptera</p> <p>A taxonomic list.</p> <p>FiB:hr F</p>

Hindle, E. (1957) 570727
Nature, Lond., 180:935-6
Zoological literature

Review of 571556.

GLK

MF

Hiyama, Y., T. Kusaka and 570730
K. Kondo (1957)
Bull.Jap.Soc.sci.Fish., 22:598-601
(Differences on the frequency of
transfer of fishes among several kinds
of colours for under-water fencing
net). Ni En

Tin plates enamelled different colours
used to simulate a fencing net in
experimental tank, to demonstrate
reaction of Acheilognathus lanceolate
(Yari-tanago) to significant coloured
objects.

SJH:sjh

F

Hipkins, F.W. (1957) 570728
Fish.Leafl., Wash., 439:12 p.
The dungeness crab industry

Deals with Cancer magister, often
called the Pacific crab. Includes
brief history of the commercial fishing
areas, methods of capture, fishing
boats, and regulations for the
commercial fishery. Statistics on
landings of dungeness crabs in
California, Oregon, Washington and
Alaska from 1946 to 1954.

FAO:glk

M

Hobbs, H.H. Jr., and 570731
M. Walton (1957)
Tulane Stud.Zool., 5:39-52
Three new crayfishes from Alabama and
Mississippi

Three new crayfishes of the Blandingii
Group are described from Alabama and
Mississippi: Procambarus hybus, P.
mancus and P. jaculus.

FAO:hr

F

Hiyama, Y., T. Kusaka and 570729
K. Kondo (1957)
Bull.Jap.Soc.sci.Fish., 22:602-4
(Difference on the frequency of transfer
of fishes with different degrees of
inclinations of underwater fencing
net). Ni En

White enamelled tin plate used in tank
to simulate fencing net set at
varying angles to the vertical and
demonstrate reactions of Acheilogna-
thus lanceolate (Yari-tanago) to
significant inclined objects.

SJH:sjh

F

Hodgson, W.C. (1957) 570732
Routledge and Kegan Paul, London, 197 p.
The herring and its fishery

Covers the following topics: I. Distribu-
tion of the family Clupea; II. The
herring fisheries; III. Catching the
herring; IV. The herring as a food;
V. Science and fishing; VI. Fluctuations;
VII. Science and the fish; VIII. The
East Anglian fishery and forecasting;
IX. The decline of the East Anglian
fishery.

:hr

M

Hoffman, J. (1957) 570733
Int.hydr.Rev., 34(2):47-57
Application des courbes hyperboliques
au sondage par écho (Application of
hyperbolic curves in echo-sounding)

Discussion of the use of these curves
in determining the breadth of the
emission beam of the echo-sounder, the
speed of the vessel, the phase of the
recorder, the slope of the bottom, in
interpreting bottom configuration and
perhaps in solving the problem of the
deep scattering layer.

FAO:glk

M

Holden, A.V. (1957) 570736
Challenger Soc., 3(9):29
Factors concerned in the removal of
phosphate from fresh waters

Abstr. of paper read at Joint Meeting
of the Brown Trout Research Laboratory,
Pitlochry. 4th and 5th October, 1956.
Account of investigations on
disappearance of dissolved phosphate,
following addition of fertilizer to
a Scottish hill loch, and some factors
concerned in phosphate removal. Incl.
discussions on possibility of producing
permanent increase in quantity of
phosphorus in circulation.

SJH:efa

F

Hohn, M.H. (1957) 570734
Petrol.Engr, 29(2):46-8
The diatometer, a method for indicating
conditions of aquatic life

F

Holland, G.A. (1957) 570737
Fish.Res.Pap.Wash.Dep.Fish., 2(1):43-59
Migration and growth of the dogfish
shark, Squalus acanthias (Linnaeus),
of the eastern North Pacific

Catch statistics, tagging methods and
returns, and factors affecting these;
migrations, growth.

FAO:sjh

M

Hokkaido University, Faculty 570735
of Fisheries (1957)
Hokkaido 1957
Data record of oceanographic observations
and exploratory fishing, no. 1

Concerned with data collected in
cruises to the Aleutians and Bering
Sea.

:sjh

MF

Hollande, A. and M. Enjument (1957) 570738
Bull.sta.Aquic.Pêche Castiglione, (8):
271-9

Sur une invasion des eaux du port d'Alger
par Chattonella subsalsa (= Hornellia
marina Sub.) Biecheler - Remarques sur
la toxicité de cette chloromonadine
(On an invasion of the waters of the
port of Algiers by Chattonella subsalsa
(= Hornellia marina Sub.) Biecheler -
Remarks on the toxicity of this chloro-
monadine)

Notes on the biology and toxicity of
this sp.

FAO:efa

M

Hollande, A. and M. Enjume (1957) 570739
C.R.Acad.Sci., Paris, 244:508-10
 Enkystement et reproduction isosporo-
 génétique chez les Acanthaires
 (Encystment and isosporogenetic
 reproduction in the Acantharia)

Content as per title.

FAO:efa

M

Honma, M. and T. Kamimura (1957) 570742
Rep.Nankai reg.Fish.Res.Lab., 6:84-90
 (Studies on the albacore. V. The
 fishing condition and size of albacore
 taken in the South Pacific Ocean).
 Ni En

Hook-rate length compositions from
 Tokyo, Misaki and Yaizu landings and
 mother ships working near Solomon I.
 1952-55.

FAO:sjh

M

Holmberg, L. (1957) 570740
Svensk FiskTidskr., 66(12):201-2
Fiskande kråkor (Fishing Corvus
corone cornix L.)

Observations on the fishing behaviour
 of this bird.

FAO:tl

F

Hood, D.W., K. Park and 570743
 J.B. Smith (1957)
Paper presented at the Thirty-Eighth
Annual Meeting, Washington, D.C.,
April 29 - May 2, 1957
 Bicarbonate ion as a source of carbon
 for marine plants, and its oceano-
 graphic significance

M

Holmes, R.W., M.B. Schaefer 570741
 and B.M. Shimada (1957)
Bull.interam.trop.Tuna Comm., 2(4):129-
68

Primary production, chlorophyll, and
 zooplankton volumes in the tropical
 Eastern Pacific Ocean. Es

Description of the methods used; results
 of surface and subsurface observations;
 correlation of surface primary
 production and zooplankton volumes with
 surface chlorophyll and comparisons
 with observations in other oceanic
 regions.

FAO:tl

M

Hooker, C.V., M.H. Duffner 570744
 and C.R. Brown (1957)
Washington: Government Printing Office,
235 p.
 The polar bibliography. Vol. II

Annotated bibliography, prepared by staff
 of the Technical Information Division in
 the Library of Congress for the USA
 Department of Defense. Not available for
 general distribution or for sale.
 Accessible to readers at the Library of
 Congress along with Vol. I issued in 1956.
 Containing references to unpublished,
 unclassified documents relating to the
 polar and subpolar regions and to the
 effects of cold environment on men and
 equipment.

:sjh

MF

Hopke, F.W. (1957) 570745
Fischwirt, 4:85-91
Kapfenwirtschaft in Seen (Carp
culture in the lakes)

Review of the problem and present
practices.

FAO:tl

F

Hoshi, T. (1957) 570748
Sci.Rep.Tohoku Univ., 4th Ser., 23(1):
27-33
Physiology and ecology of plankton.
XII. Changes in oxygen consumption of
the daphnid, Simocephalus vetulus, with
the decrease of oxygen concentration

F

Horiguchi, Y. (1957) 570746
Bull.Jap.Soc.sci.Fish., 22(12):747-51
(Biochemical studies on Pteria (Pinctada)
martensi (Dunker) and Hyriopsis schlegeli
(Martens) - III. Accumulation and
disappearance of Ca^{45} in various organs
of Hyriopsis schlegeli (Martens)). Ni

Study of calcium metabolism, using
tracers, to clarify mechanism of shell
and pearl formation.

SJH:sjh

M

Hoshi, T. (1957) 570749
Sci.Rep.Tohoku Univ., 4th Ser., 23(1):
35-58
Physiology and ecology of plankton.
XIII. Hemoglobin and its role in the
respiration of the daphnid, Simocephalus vetulus

F

Horridge, G.A. (1957) 570747
Phil.Trans., Ser.B., 240(675):495-528
The co-ordination of the protective
retraction of coral polyps

M

Hoshina, T. (1957) 570750
J.Tokyo Univ.Fish., 43(1):59-66
Further observations on the causative
bacteria of the epidemic disease like
furunculosis of rainbow-trout

Description of Vibrio piscum var.
japonicus n. var. from Salmo gairdnerii.
Epidemic was reported by author in
J.Tokyo Univ.Fish., 42:15-6, 1956.

FAO:sjh

F

<p>Hoshina, T. and T.Chiba (1957) <u>Bull.Jap.Soc.sci.Fish.</u>, 23(4):199-201 On the bacteriostatic power of malachite green against the causative bacteria of vibrio-disease of rainbow- trout</p> <p>Tests of this dye with bacterial cultures, showing influence on growth rates.</p> <p>SJH:sjh F M</p>	<p>Houbolt, J.J.H.C. (1957) 570754 <u>Rijksuniv.Utrecht</u>, 113 p. Surface sediments of the Persian Gulf near the Qatar peninsula</p>
<p>Hoshina, T. and 570752 S. Hosoda (1957) <u>J.Tokyo Univ.Fish.</u>, 43(1):71-3 On a new myxosporidian species, <u>Thelohanellus cyprini</u>, n. sp., parasitic in the fin of <u>Cyprinus carpio</u></p> <p>An ill. description of specimens from ponds at Kazô, Saitama, July 1956.</p> <p>FAO:sjh F M</p>	<p>Houot, G. and 570755 J.M. Peres (1957) <u>Sea Frontiers</u>, 3:72-9 Science goes deep</p> <p>Popular description of the bathyscape and its use.</p> <p>HR:tl M</p>
<p>Hoshina, T. and 570753 T. Sano (1957) <u>J.Tokyo Univ.Fish.</u>, 43(1):67-9 On a trypanosome of eel</p> <p>Ill. description of <u>Trypanosoma</u> sp. (not <u>T. granulosum</u>) from <u>Anguilla</u> <u>japonica</u> in pond, Shizuoka, summer of 1956.</p> <p>FAO:sjh F M</p>	<p>Hourston, A.S. (1957) 570756 <u>Progr.Rep.Pacif.Cst Stas</u>, (109):12-3 Relative abundance of juvenile herring in the strait of Georgia in 1955 and 1956</p> <p>Nos. observed schools of <u>Clupea palasii</u>.</p> <p>GLK:sjh M</p>

<p>Hourston, A.S. and R.H. Herlinveaux (1957) <u>Progr.Rep.Pacif.Cst Stas</u>, (109):3-6 A "mass mortality" of fish in Alberni Harbour, B.C.</p> <p>Investigation of dead <u>Gasterosteus</u> <u>aculeatus</u> and <u>Cymatogaster aggregatus</u> observed 26/9/56; relation to pollution; hydrographic observations.</p>	570757	<p>Hubault, E. (1957) <u>Bull.Soc.Sci.</u>, Nancy, 16(2):22-39 <u>Etude des pollutions d'eaux libres:</u> méthode chimique, méthode biologique, test poisson (Study of the pollution of unconfined waters: chemical methods, biological methods, fish test)</p> <p>A brief review of methods of study of industrial pollution in running or stagnant waters.</p>	570760
GLK:sjh	M	FAO:hr	F
<p>Houston, A.H. (1957) <u>Canad.J.Res.(Zool)</u>, 35(3):371-83 Responses of juvenile chum, pink and coho salmon to sharp sea-water gradients</p> <p>A study in sharp-gradients tanks of responses of <u>Oncorhynchus keta</u>, and <u>O.</u> <u>gorbuscha</u> fry, and <u>O. kisutch</u> fry smolts to sea water in sharp-gradient tanks.</p>	570758	<p>Hubbs, C. (1957) <u>Tex.J.Sci.</u>, 9:472-4 Duration of sperm viability as a factor in frequency of fish hybridiza- tion</p> <p>Fertilization experiments with <u>Percina</u> <u>caprodes</u> (Rafinesque) and <u>Etheostoma</u> <u>spectabile</u> (Agassiz).</p>	570761
FAO:hr	MF	FAO:sjh	F
<p>Hu, Bu-chin and Mei-hwa Hwang (1957) <u>Acta zool.sinica</u>, 9:195-205 (The nature population and sex ratio of <u>Chirocephalus nankinensis</u> in Hangchow and its vicinity and the preliminary results of crossing experiments in the laboratory). <u>Ch</u> <u>En</u></p> <p>A preliminary report based on the records from 1948-1956.</p>	570759	<p>Hubbs, C. (1957) <u>Tulane Stud.Zool.</u>, 5:3-16 <u>Gambusia heterochir</u>, a new poeciliid fish from Texas, with an account of its hybridization with <u>G. affinis</u></p> <p>The new species described has formed a hybrid swarm with <u>Gambusia affinis</u>. Introgression with <u>G. heterochir</u> appears negligible. Introgression was not found in nearby populations of <u>G. affinis</u>.</p>	570762
FAO:hr	M	FAO:hr	F

Hubbs, C. and K. Strawn (1957) 570763
Evolution, 11(1):1-10
Relative variability of hybrids between
the darters Etheostoma spectabile and
Percina caprodes

A sample of F₁ hybrids between the orange
throat darter (Etheostoma spectabile) and
the logperch (Percina caprodes) stocks
from the San.Gabriel River varied widely
in a number of morphological characters.
Hybrids of the same combination from
Colorado River stocks were no more
variable than their parental stocks.

GLK:wad

F

Huddle, H. (1957) 570766
Inform.Lcagl.Calif.Dep.Fish Game,
(18):3 p.
Chemical eradication of aquatic weeds
and algae

Lists some of the major chemicals
used and includes detailed methods for
use of copper sulfate in algae control.

WAD:wad

F

Hubert, W.E. (1957) 570764
Paper presented at the Thirty-Eighth
Annual Meeting, Washington, D.C.,
April 29- May 2, 1957
Numerical sea-condition forecasts

M

Humes, A.G. (1957) 570767
Bull.Inst.franç.Afr.noire, A.Sci.nat.,
19:485-90
Une nouvelle espèce de Clausidium
(Copepoda, Cyclopoida) parasite d'une
Callianassa au Sénégal (A new
species of Clausidium (Copepoda, Cyclo-
poida) parasite on a Callianassa in
Senegal)

Morphological description.

FAO:glk

M

Hublou, W.F. (1957) 570765
Progr.Fish Cult., 19(1):40-3
A method of using an anesthetic in
marking fins

Describes a closed recirculating system
used for marking salmonids in hatchery
troughs.

WAD:wad

F

Humes, A.G. (1957) 570768
Vie et Milieu, 8(1):9-22
Deux copépodes harpacticoïdes nouveaux
du genre Tisbe, parasites des holothu-
ries de la Méditerranée (Two new
harpacticoid copepods of the genus
Tisbe, parasite to the holothurians of
the Mediterranean)

A taxonomic description of Tisbe holo-
thuriae and T. cucumariae, followed by
a discussion of their systematic
relationship.

FAO:hr

M

<p>Humes, A.G. (1957) 570769 <u>Vie et Milieu</u>, 8(1):1-8 <u>Octopicola superba</u> n. g., n. sp., copépode cyclopoïde parasite d'un <u>Octopus</u> de la Méditerranée (<u>Octopicola superba</u> n. g., n. sp., a cyclopoid copepod parasite to an <u>Octopus</u> of the Mediterranean)</p> <p>A taxonomic description of the genus and species, followed by a discussion of the systematic position of the genus.</p> <p>FAO:hr M</p>	<p>Hurley, D.E. (1957) 570772 <u>Trans.roy.Soc.N.Z.</u>, 84(4):903-33 Studies on the New Zealand amphipodan fauna - No. 14. The genera <u>Hyalé</u> and <u>Allorchestes</u> (family Talitridae)</p> <p>The genera <u>Hyalé</u> and <u>Allorchestes</u> are considered distinct and keys are given to the New Zealand species of <u>Hyalé</u> which are here revised. Seven species of <u>Hyalé</u> and two of <u>Allorchestes</u> are recorded two of the former being new records for New Zealand.</p> <p>FAO:glk M</p>
<p>Hunter, W.R. and T. Warwick (1957) 570770 <u>Proc.roy.Soc.Edinb.</u>, B, 66:360-73 Records of <u>Potamopyrgus jenkinsi</u> (Smith) in Scottish fresh waters over fifty years (1906-56)</p> <p>Traces dispersal of this snail across Scotland largely from the Tay.</p> <p>FAO:jae F</p>	<p>Hurley, D.E. (1957) 570773 <u>Trans.roy.Soc.N.Z.</u>, 85(1):149-99 Terrestrial and littoral amphipods of the genus <u>Orchestia</u> (family Talitridae)</p> <p>The generic status of <u>Orchestia</u> and <u>Parorchestia</u> is discussed and <u>Parorchestia</u> is considered a synonym of <u>Orchestia</u>. Keys are given to the 14 species of New Zealand <u>Orchestia</u> here described, four of which are new to science.</p> <p>FAO:hr M</p>
<p>Huntley, I.D. (1957) 570771 <u>Weather</u>, 12:373-6 The Thames in winter</p> <p>MF</p>	<p>Hylblom, R. (1957) 570774 <u>Ark.Zool.</u>, 10:539-82 Studies on palaeoneomertans of the Gullmar Fiord area (West Coast of Sweden)</p> <p>A taxonomic description.</p> <p>FAO:tl M</p>

Idyll, C.P. (1957) 570775
The Marine Laboratory, University of
Miami, ML 15951, 57-11, 11 p.
 Quarterly report on fisheries research

Statistics. Report of investigations
 on shrimp, weakfish, tarpon, snook,
 gamefish, and on various technological
 problems.

FAO:glk

M

Il'in, B.S. (1957) 570778
Vop.Ikhtiol., 8:25-7
 Dobavlenie k faune buchkov (Gobiidae)
 Chernogo Moria (Additions to the
 Goby (Gobiidae) fauna of the Black Sea)

Notes on Gobius (Macrogobius) paganellus
 L.

FAO:glk

M

Igarashi, H. et al. (1957) 570776
Bull.Hokkaido reg.Fish.Res.Lab., (16):
 92-9

(Preliminary report on copper content in
 the sea water and the marine algae of
 the inlet of Toyohama, Ishikari Bay).
Ni En

Spectrographic analysis of copper as
 indicator of pollution, showed specific
 and seasonal variations, in Sargassum,
Enteromorpha, Ulva, Laminaria, Chondrus,
Rhodymenia, Scytosiphon and Grateloupia
 spp.

FAO:sjh

M

Iljin, A.V. (1957) 570779
C.R.Acad.Sci.U.R.S.S., 116:397-400
 Novye dannye o reliefe morskogo dna v
 raione Komandorskikh ostrovov (New
 data on the bottom relief in the region
 of the Commodore Islands)

Description and results of echo-soundings,
 carried out in 1950-55.

FAO:gc

M;

Ikematsu, W. (1957) 570777
Bull.Jap.Soc.sci.Fish., 22(12):736-41
 (Ecological studies on the clam, Tapes
japonica (Reeve). II. On the setting
 season and the growth in early young
 stage). Ni

Study of collections made 1952-55 from
 Sea of Ariake; two seasons; May and
 December, but former is unstable.

SJH:sgk

M

Imamura, Y. and 570780
 M. Ogura (1957)
Bull.Jap.Soc.sci.Fish., 23(3):150-6
 Study on the effects of the fish-gathering
 by means of Furinawa

Use of model fishing gear in tank with
Cyprinus carpio to study the character-
 istics of the equipment used in the
 Japan Inland Sea to catch Pagrosomus
major.

SJH:sjh

MF

Imhoff, K., W.J. Müller 570781
and D.K.B. Thistelthwayte (1957)
Butterworths Scientific Publications,
London
Disposal of sewage and other water-
borne wastes

MF

Indo-Pacific Fisheries 570784
Council (1957)
Regional Office for Asia and the Far
East, FAO, Bangkok, 1 vol.
Directory of fisheries institutions
(Asia and the Far East)

MF

Inaba, D. et al. (1957) 570782
J.Tokyo Univ.Fish., 43(1):81-96
Preliminary report on the spawning of
grass-carp and silver-carp in the Tone
River, Japan and the development of
their eggs

Ill. description of successful experiments
in propagation of Ctenopharyngodon
idellus, Hypophthalmichthys molitrix and
Aristichthys nobilis.

FAO:sjh

F

Ingalls, T.H. (1957) 570785
Sci.Amer., 197(4):109-16
Congenital deformities

Illustrated report on experiments to
measure the damage to the embryo of
zebra fish by lack of oxygen.

FAO:hr

F

Indo-Pacific Fisheries 570783
Council (1957)
Occ.Pap.IPFC, 57/3, 33 p.
National fisheries policy and programme

Compilation of statements on governmental
programmes in administration,
development and research, and policy on
which these programmes are based.

GLK:glk

MF

Inger, R.F. (1957) 570786
Fieldiana, Zool., 36(3):341-405
Report on a collection of marine fishes
from North Borneo

M

Ingols, R.S. (1957) 570787
Sewage industr.Wastes, 29:292-7
Pollutional effects of hydraulic power
generation

F

International Commission for the 570790
Northwest Atlantic Fisheries (1957)
Halifax, N.S., Canada, 76 p.
Annual proceedings for the year 1956-57,
Vol. 7

Administration report and financial
statement for 1/7/56 - 30/6/57; report
of 7th Ann. Meeting, in Lisbon, 20-25/5/
57, with agenda and list of participants;
summaries of research by member countries
in each subarea, for 1956; list of
laboratories and scientists.

GLK:sjh

M

Ingram, W.M. (1957) 570788
Public Health Service, U.S.Dep.Health
Education and Welfare, 95 p.
Handbook of selected biological
references on water pollution control,
sewage treatment, water treatment

Selected largely for availability and
usefulness to those not trained
primarily in biology. Also includes
references on organism identification.
Not annotated.

FAO:wad

F

International Commission for the 570791
Northwest Atlantic Fisheries (1957)
Halifax, N.S., Canada, 4 p.
Newsletter No. 25

Announcement of German ratification of
the ICNAF treaty. A brief discussion
of German participation in fishing and
research in the area. Report on the
enforcement of legislations proposed
by the Commission and news of various
fishing operations by member States in
the Commission area.

FiB:glk

M

Inter-Island Marine Biological 570789
Conference (1957)
Univ.Puerto Rico, Off.nav.Res.(March
31 - Apr. 6, 1957), 28 p.
Report by the Institute of Marine
Biology, College of Agriculture and
Mechanic Arts, University of Puerto Rico,
Mayaguez, Puerto Rico

Contains the objectives, general program,
and program of meetings and abstracts of
proceedings. Appendices A and B contain
the abstracts of some papers presented
and an account of laboratories of the
region respectively.

HR:hr

M

International Commission for the 570792
Northwest Atlantic Fisheries (1957)
Halifax, N.S., Canada, 52 p.
Statistical Bulletin, Vol. 5 for the
year 1955

Part 1 gives summary of the fishery in
the Convention Area 1952-55; Part 2
gives detailed tables of landings by
species groups, certain species, country,
month, subdivision, subarea and gear,
and landing effort by gear and subarea
for each country.

GLK:hr

M

International Electrotechnical Commission (1957) 570793
Publ.int.electrotech.Comm., (92), 175 p.
Recommendations for electrical installations in ships

FAO

M

International North Pacific Fisheries Commission (1957) 570796
Vancouver, 88 p.
Annual report for the year 1956

Report of the 1956 annual meeting, administrative report and the results of research by Canada, Japan and U.S.A. in 1956.

SJH:tl

M

International Institute of Refrigeration (1957) 570794
Paris, 240 p.
Commissions: 2, Nantes. 1. Air-conditioning on board ships. 2. Thermal insulation on board ships. 3. Thermal measurements.

FAO

M

Irisawa, H. and A.F. Irisawa (1957) 570797
Biol.Bull.Wood's Hole, 112(3):358-62
The electrocardiogram of a stomatopod

The electrocardiogram of the tubular heart of the mantis shrimp, Squilla oratoria de Hann, was studied. Structural findings are described which confirm Alexandrowicz's observation.

FAO:glk

M

International Labour Conference (1957) 570795
Seventh item on the agenda, Geneva, International Labour Office, Report 7(1)
Conditions of work of fishermen.
En Fr Es

MF

Irving, L and J.S. Hart (1957) 570798
Can.J.Zool., 35:497-511
The metabolism and insulation of seals as bare-skinned mammals in cold water

The metabolic rate of five harbor seals (Phoca vitulina) and two harp seals (Phoca groenlandica) was measured over a temperature range of 25° to 10°C. in air and 20° to 0°C. in water. Surface temperatures and tissue temperature gradients were also determined. Metabolic economy of the seals in ice water was preserved by exceptional cooling of all body surfaces (to about 1°C.), which cooling provided protection comparable to that of fur of large land mammals in coldest climates.

FAO:hr

M

Isaacs, J.D., R.P. Huffer 570799
and L.W. Kidd (1957)
Science, 125(3243):341
Instrument stations in the deep sea

Preliminary announcement of technique
for mooring instrument stations in
depths of from 3,200 to 4,700 metres.

FAO:glk

M

Ishida, T. (1957) 570800
Bull.Hokkaido reg.Fish.Res.Lab., (16):
63-9

(On the population of Alaska pollack in
the South-West coast of Hokkaido, with
special reference to the otolith study).
Ni En

Otoliths show different rates of growth
in 3 groups of Theragra chalcogramma
which are distinguishable by size
frequency differences. Relation of these
differences to population density and
to oceanographic conditions.

FAO:sjh

M

Ishigaki, T. and Y. Kaga (1957) 570801
Bull.Hokkaido reg.Fish.Res.Lab., (16):
13-38

Fishery biological studies of sand-lance
(Ammodytes personatus Girard) in waters
around Hokkaido - I. Especially on
the structure of population

Meristic and morphometric characteristics
of catch samples; fishing season and
localities; clines, races, sexual
differences examined.

FAO:sjh

M

Itazawa, Y. (1957) 570802
Bull.Jap.Soc.sci.Fish., 22:685-93
(The diurnal variation of the oxygen
content of the fish-culture-pond
water). Ni En

Results (by carbon dioxide method of
O₂ estimation) are related to phyto-
plankton density (estimated by Nakamura
white disk transparency method), to
size of fish population, and to amount
of other radiation.

SJH:sjh

F

Itazawa, Y. (1957) 570803
Bull.Jap.Soc.sci.Fish., 23:71-80
Gas content of the blood in response
to that of medium water in fish

Tank expts. with Cyprinus carpio in
which O₂ and CO₂ content of arterial
and venous blood and of the water were
measured and compared, for normal fish,
and one suffering from dyspnoea.
Describes techniques.

SJH:sjh

F

Ito, T. (1957) 570804
Hydrobiologia, 11(1):1-28
Groundwater copepods from south-western
Japan

Notes on the occurrence, taxonomy and
morphology of 15 cyclopoids from wells
and limestone caves. Three new species
are described: Paracyclops aiouensis,
Acanthocyclops miurai and Halicyclops
higoensis.

FAO:wad

F

Iurovitskii, Iu.G. (1957) 570805
Zool.Zh., 36(6):831-8
K voprosu ob izmenchivosti organizmov
(On the variability of organisms)

Discussion of the variability and character of organisms, regarding variability itself as an adaptive character like all other features of the organization, activity and behaviour of species. The discussion is based on data relating to fecundity of Abramis ballerus L.

FAO:glk

F

Iversen, E.S. and 570808
H.O. Yoshida (1957)
Pacif.Sci., 11(4):370-8
Notes on the biology of the wahoo in the Line Islands

Methods; notes on availability, reproduction, food habits, length frequency, composition of catch, length-weight relation, and parasites.

FAO:glk

M

Ivanoff, A. (1957) 570806
Bull.Com.cent.Océanogr., 9(9):491-9
Un polarimètre sous-marin à cellule photoélectrique. Premiers résultats obtenus (A sub-marine polarimeter with photoelectric cell. First results)

Description of the polarimeter and of the principles on which it operates, with an account of the first results obtained concerning the influence of depth and of wave length and a discussion of other possibilities of the polarimeter.

FAO:glk

M

Iwai, T. (1957) 570809
Bull.Jap.Soc.sci.Fish., 23(6):295-301
The sequence of yolk absorption in the embryo of the deep-sea luminous shark, Etmopterus lucifer Jordan et Snyder

Ill. report of histological study of series of 88 specimens ranging 3.7 - 15 cm total length stripped from gravid females caught off Owashi in spring and autumn fishing seasons, 1954.

SJH:sjh

M

Ivasik, V.M. and P.E. Roi (1957) 570807
Bul.Inst.Cerc.piscic.Roman., 16(2):61-8
Experiente pentru lichidarea hidropiziei crapilor in gospodariile de elesteu din regiunile vestice ale RSS Ucrainene (Experience in control of carp dropsy in fish farms of western regions of Ukraine). Fr Ru

Reports results of experiments for improvement of Cyprinus carpio culture.

FAO:sjh

F

Izhevskii, G.K. (1957) 570810
Fish.Ind., Moscow, (12):48-55
O zablagovremennom opredelenii rezhima Barentsova moria (The timely forecast of the water regime in the Barents Sea)

The sea's thermal regime and fish behaviour. Larger range of migrations and lesser concentration of shoals in warm years which are also more propitious for reproduction. Warm spells in the Barents Sea correspond to cold ones off Greenland. Importance for fisheries of forecasts based on studies of currents.

FiB:go

M

Jaag, O. (1957) 570811
Monatsbull.schweiz.Ver.Gas- u.Wasser-
fachm., 37:225-8
Radioactivity and protection of water

Jakovlev, V. (1957) 570814
Kurze Mitt.Inst.FischBiol.Univ.Hamburg,
(7):23-8
Vorläufige mitteilung über die Unter-
suchung des wassergehaltes bei schollen
und kliesen (Preliminary
communication on research into the
water content of plaice and dab)

Report of determinations made on fresh
material at sea and examination of the
relation of percentage water content
with length.

MF

FAO:glk

M

Jablonski, O. (1957) 570812
Prace Inst.morsk.Gdansk., (8):5-37
Metoda ogólnego projektowania
ekspedycyjnych flot rybackich (A
method of joint designing of a fishing
flotilla). En Ru

Desirable relations of characteristics of
fishing grounds of groups within the
fleet and technical characteristics of
craft. Handling efficiency. A system of
equations is devised to give alternative
and economically optimal design solutions;
selection of technically practicable
solutions. Working schemes for the fleet.
Bibliography of this neglected but
important subject.

FAO:t1

M

James, P.E. (1957) 570815
Econ.Geogr., 33:267-74
Man's role in changing the face of the
earth

Critical review of Thomas, W.L. (see
especially Graham, M.), 1956.

FAO:sjh

F

Jacquemart, S. (1957) 570813
Résult.sci.Explor.hydrobiol.Kivu,
Eduard and Albert, 3(2):65-129
Trichoptera des lacs Kivu et Eduard
(Trichoptera of lakes Kivu and Edward)

Japanese National Commission 570816
for UNESCO (1957)
Tokyo, 235 p.
Oceanographic papers in Japan
(Annotated Bibliography 1873-1938)

F

M

Jashnov, W.A. (1957) 570817
Zool.Zh., 36(2):191-8
 Comparative morphology of the species
 of Calanus finmarchicus S.L.

Discusses the structure of the head and
 the legs of the 5th pair of adults and
 stage V of C. finmarchicus (Gunner),
C. glacialis Jaschnov, C. helgolandicus
 (Claus) with variety C.h. ponticus
 Jaschnov and C. pacificus Brodsky.

FAO:tl

M

Jennings, J.B. (1957) 570820
Biol.Bull., Wood's Hole, 112(1):63-80
 Studies on feeding, digestion, and food
 storage in free-living flatworms
 (Platyhelminthes: Turbellaria)

A study has been made of the food,
 feeding mechanisms, digestion and food
 storage in the triclad Polycelis
cornuta, supplemented by observations
 on representatives of the other three
 flatworm orders.

FAO:glk

MF

Jayaraman, R. and 570818
 S.S. Gogate (1957)
Proc.Indian Acad.Sci., Sec.B, 45:151-64
 Salinity and temperature variations in
 the surface waters of the Arabian Sea
 off the Bombay and Saurashtra coasts

Jensen, A.J.C. (1957) 570821
Dansk FiskTid, 75(1):1-3
 Aendret maskeviddes virkning på
 fiskeriudbyttet (The influence of
 the changed mesh-size on the yield of
 the fishery)

Summary of the discussions and
 investigations on the subject in
 connection with the North Sea
 Convention.

M

FAO:tl

M

Jenkin, P.M. (1957) 570819
Phil.Trans., Ser.B, 240:401-93
 The filter-feeding and food of
 flamingoes (Phoenicopteri)

Jensen, E.C. et al. (1957) 570822
Sewage industr.Wastes, 29:687-94
 Radioactive waste problems facing
 State governments

MF

MF

Jensen, P.T. (1957) 570823
Calif. Fish Game, 43(1):99
An extension of the range of the long-
finned smelt

Discovery of Spirinchus dilatatus in Eel
River, California, USA, in 1955,
extends known southern range by 400
miles and adds another species to fish
fauna of California.

HR:wad

F

John, K.R. (1957) 570826
Copeia, (2):123-32
Observations on the behavior of blind
and blinded fishes

Gives the results of an analysis of the
various components of orientation
including memory and distance perception
mainly obtained on Anoptichthys hubbsi
and Astyanax mexicanus.

HR:hr

F

Jeppson, P. (1957) 570824
Progr. Fish Cult., 19:168-71
The control of squawfish by use of
dynamite, spot treatment, and reduction
of lake levels

Describes methods used in Idaho (USA)
lakes for the dispersal or eradication
of spawning schools with ditching
dynamite, killing of young with rotenone
and Fish Tox, and exposure of eggs.
Notes on the life history of Ptycho-
cheilus oregonensis are given.

WAD:wad

F

John Murray Expedition 570827
1933-34 (1957)
Sci. Rep. Murray Exped., 10(3):8 p.
Cephalochordata

Jerlov, N.G. (1957) 570825
Tellus, 9(2):229-33
A transparency meter for ocean water

The significance of the optical system
in extinction measurements for a
liquid dispersion is emphasized. In
particular, the mechanism by which light
is lost by scattering in a transparency-
meter in the sea is discussed. The
strongly selective absorption of yellow
substance is demonstrated. A new
transparency-meter sufficiently
accurate for measurements in clear
ocean water is described.

FAO:tl

M

Johnels, A.G. (1957) 570828
Oikos, 8(2):122-9
The mode of terrestrial locomotion in
Clarias

Description, with series of stills from
ciné-film and line drawings of movement
on dry-land of Indian catfish, probably
C. senegalensis, but perhaps C. lazera,
observed in 1950.

FAO:sjh

F

Johnson, F., J.R. Arnold and R.F. Flint (1957) 570829
Science, 125(3241):240-2
Radiocarbon dating

Part of the article deals with the age of bottom waters of the oceans and the mixing and movement of water masses, as related to the general problems of radiocarbon dating.

FAO:tl

M

Jolivet, Y. (1957) 570832
Résult.sci.Explor.hydrobiol.Tanganyka, 3(6):37-8
Diptera Blattodea

A taxonomic list.

FiB:hr

F

Johnson, L.D. (1957) 570830
Progr.Fish Cult., 19(1):31
Neutralizing electrostatic charge on rolling-mill scale press

Describes method of dissipating charge by brushes with strips of radioactive polonium.

FAO:efa

MF

Jolly, V.H. (1957) 570833
Trans.roy.Soc.N.Z., 84(4):855-65
A review of the copepod genus Boeckella in New Zealand

The systematic position of the genus Metaboeckella is discussed. Revised specific descriptions are given, and figures of the important specific characteristics.

FAO:glk

F

Jolivet, P. (1957) 570831
Résult.sci.Explor.hydrobiol.Tanganyka, 3(6):43-51
Coleoptera Chrysomeloidea

A taxonomic list.

FiB:hr

F

Jones, D.N. (1957) 570834
Chem.Tr.J., 140:1410, 1412
Fresh water from salt water

MF

Jones, N.R. and J. Murray (1957) 570835
Biochem.J., 66:5-6
Nucleotides in the skeletal muscle of codling (Gadus callarias)

Determination of nucleotides in muscle of codling killed by immersion in liquid air; values were obtained for rested fish, exhausted fish, and for exhausted fish that had been caught by trawling and stored.

FAO:glk

M

Jonsgård, A. and P. Høidal(1957) 570838
Norsk Hvalfangsttid., 46:507-12
Strandings of Sowerby's whale (Mesoplodon bidens) on the west coast of Norway

Description of voluntary stranding of the whales; discussion on the distribution and biology of the genus Mesoplodon with growth curve.

FAO:tl

M

Jones, N.S. (1957) 570836
Bull.Inst.franc.Afr.noire, A.Sci.nat., 19:482-4

Cumacea from the coast of Sénégal collected by J. Cadenat

Preliminary note listing the material collected.

FAO:glk

M

Jonsgård A., J.T. Ruud 570839
and P. Øynes (1957)
Norsk Hvalfangsttid., 46:160-77
Is it desirable and justified to extend the open season for humpback whaling in the Antarctic?

A study of the dynamics of the population of the humpback whales (Mcgaptera nodosa) and the increase in abundance of the species as a result of closed seasons.

FAO:tl

M

Jones, R.F. (1957) 570837
Biol.Bull., Wood's Hole, 112(1):81-91
Variation of nitrogen and carbohydrate constituents during the development of Himanthalia elongata (L.) S.F. Gray

Study to determine the variation of chemical constituents during growth and development from germination to maturity and senescence, with independent study of vegetative and reproductive tissues.

FAO:glk

MF

Jordan, H.D. (1957) 570840
Emp.J.exp.Agric., 25:197-206
Crabs as pests of rice on tidal swamps

Reports damage to seedlings by Sesarma huzardi, S. alberti, S. angolonse and Sarmatium curvatum, at West African Rice Research Station. Breeding season and behaviour; methods of chemical control.

FAO:sjh

MF

Jubb, R.A. (1957) 570841
Nature, Lond., 180:47-8
Eels in southern Africa

Occurrence of several spp. of Anguilla
in river flowing into the western
Indian Ocean.

CLK:sjh

MF

Kändler, R. and M. Lühmann (1957) 570844
Ber.dtsch.Komm.Meeresforsch., 14(3):
233-54

Über den Lachsbestand und die Erträge
des deutschen Lachsfanges in der
südöstlichen Ostsee (On salmon
stock and yields of the German salmon
catch in the south-eastern Baltic)

Notes on the history of Salmon salar
and Salmo trutta; age and size of the
salmon caught in southern Baltic by
German fishermen and yield of German
salmon fishery.

FAO:tl

M

Junge, Chr. E. and 570842
P.E. Gustafson (1957)
Tellus, 9(2):164-73
On the distribution of sea salt over
the United States and its removal by
precipitation

Average maps for summer and winter of
the distribution of chloride concentra-
tion in rain water over the United
States are presented, and an attempt
is made to explain them quantitatively.

FAO:tl

F

Kajosaari, E. (1957) 570845
FiskTidskr.Finl., 64(2):52-4
Eräiden lohikalojen suhtautuminen
selluloosateollisuuden jätevesiin
(Behaviour of some salmonides in the
waste waters from pulp and paper
mills)

Extract and Finnish translation of
original article: "Avoidance reactions
of salmonide fishes to pulp mill
effluents" (1956), Sewage industr.
Wastes, 28(11), by Jones, Warren, Bond
and Doudoroff.

FAO:tl

F

Kaartotie, T. and 570843
E. Ryhänen (1957)
FiskTidskr.Finl., 64(4):126-7
Fysikaalisia ja kemiallisia määrityksiä.
Kalavesitutkimus, I. (Investigation
of fishery waters, I.)

Physical and chemical determination.

FAO:tl

F

Kajosaari, E. (1957) 570846
FiskTidskr.Finl., 64(3):87-90
Eräiden lohikalojen suhtautuminen
selluloosateollisuuden jätevesiin
(Behaviour of some salmonides in the
waste waters from pulp and paper mills)

Continuation of 570845.

FAO

MF

Kajosaari, H. (1957) 570847
FiskTidskr.Finl., 64(2):47-8
 Maikun ja siian risteytys (Hybrid
 between Coregonus albula and Coregonus
lavanotus)

Notes on successful experiments on
 hybridization made at Porla fish
 cultural station.

FAO:tl

F

Kallman, K.D., and M. Gordon (1957) 570850
Ann.N.Y.Acad.Sci., 71(3):318 p.
 Transplantation of fins in xiphophorin
 fishes

F

Kakimoto, D. (1957) 570848
Bull.Jap.Soc.sci.Fish., 22:634-6
 (Studies on B-vitamins of pyloric coeca
 of skipjack, Katsuwonus vagans. IV. On
 vitamin B12). Ni En

Determination by Euglena and by
Lactobacillus leichmananii methods;
 effect on results of extraction by
 hot water or by enzymatic digestion.

SJH:sjh

M

Kaltofen, H. (1957) 570851
Naturwissenschaften, 5:119-20
 Zur Theorie der Nährstoffwirkung
 (On the theory of the effect of nutrient
 material)

Proposes a general growth equation,
 applicable to the dry weight of a plant
 in which the rate of growth is a function
 of the concentration of nutrient material
 within the plant. The latter, having been
 absorbed through the roots, is expressible
 as a time integral, whose integrand is
 proportional to the surface area of the
 roots. The result is an integro-differ-
 ential equation of considerable generality,
 from which further deductions can be made
 only if the functions involved are specified.

:sjh

MF

Kakimoto, D., A. Kanazawa 570849
 and K. Kashiwada (1957)
Bull.Jap.Soc.sci.Fish., 22:631-3
 (Amino acid composition of the pyloric
 coeca of skipjack, Katsuwonus vagans).
 Ni En

Reports results of microbiological
 analysis; response of lactic acid
 bacteria studied experimentally.

SJH:sjh

M

Kamasastri, P.V. (1957) 570852
Curr.Sci., 26:214-5
 The tetrazolium bromide reduction test
 in assessing the quality of fish

Content as per title.

FAO:efa

MF

Kamimura, T. (1957) 570853
Rep. Nankai reg. Fish. Res. Lab., 5:97-118
(Studies on variability of hooked-rates
of yellowfin by longline fishing. 1. A
trial to estimate confidence limits of
mean hooked-rates using data of the
catches of commercial vessels). Ni
En

Tabulation and analysis of catch records
of mother ship fleet working adjacent to
Solomon Islands in June-August, 1953.
Transformation of data employed in
analysis of variance for geographical
strata and between cruises.

FAO:sjh

M

Kamiura, F. (1957) 570854
Rep. Nankai reg. Fish. Res. Lab., 5:84-96
(Seasonal variation and distribution of
fish school amounts). Ni En

Purse-seine catches compared with
scouting results and anchovy egg counts
in Nankai region.

FAO:sjh

M

Kammerer, J.C. (1957) 570855
Washington, 33 p.
Records available to September 30, 1956,
on use of water in the Delaware Basin
Project area

F

Kampa, E.M. and B.P. Boden (1957) 570856
Deep-Sea Res., 4:73-92
Light generation in sonic-scattering
layer

Luminescence at the depth of the sonic-
scattering layer in the San Diego Trough
recorded at various times of day and
night with a tele-recording bathyphoto-
meter. The colour of the luminescence
from the sonic-scattering layer was
determined by using interference filters
with the photometer. Laboratory
determinations were made of the
intensity and spectral distribution of
the luminescence of 2 species, Euphausia
pacifica and Pyrosoma atlantica, present

in the water on the night when scatter-
ing-layer luminescence was measured.
Problems presented to the oceanographer
and the biologist by the introduction
of bioluminescence records are discussed.

FAO:glk

M

Kamshilov, M.M. (1957) 570858
Priroda, Moskva, 3:59-63
Murmanskaya biologicheskaya stantsiya
(Murman biological station)

Short description and history of the
station and its activities.

FAO:t1

M

<p>Kanaev, I.P. (1957) 570859 <u>Fish.Ind., Moscow, 33(2):56-8</u> Perkarina kak konkurent v pitanii tsennyykh promyslovykh ryb Azovskogo moria (Perkarine as a competitor in the nutrition of valuable industrial fish in the Azov Sea)</p> <p>FAO M</p>	<p>Kanwisher, J. 570862 and H. Leivestad (1957) <u>Norsk.Hvalfangsttid., 46:1-5</u> Thermal regulation in whales</p> <p>An account of temperature measurements made on a 54-foot fin whale (<u>Balaenopte- ra physalus</u>).</p> <p>FAO:tl M</p>
<p>Kanwisher, J. (1957) 570860 <u>Oceanus, 5(1-2):13-8</u> How cold is a whale's tail?</p> <p>Temperature measurements in one whale by means of a now temperature-harpoon.</p> <p>FAO:hr M</p>	<p>Kapoor, A.S. (1957) 570863 <u>Experientia, 13:459-60</u> Sensory canals of the head in <u>Wallagonia attu</u> (Day)</p> <p>Anatomical description and comparison with related species.</p> <p>FAO:glk MF</p>
<p>Kanwisher, J. and 570861 A. Ebeling (1957) <u>Deep-Sea Res., 4(3):211-7</u> Composition of the swim-bladder gas in bathypelagic fishes</p> <p>Measurements were made of swim-bladder size and gas composition on pelagic fish in the eastern Pacific. The physiological problem of vertical migration with a swim-bladder is discussed.</p> <p>GLK:tl M</p>	<p>Karamchandani, S.J. (1957) 570864 <u>Indian J.Fish., 4(1):47-61</u> On the occurrence of associates of carp fry in the fry-collection nets and the destructive role played by predatory fish</p> <p>An account of the species of undesirable fish with their percentage composition and abundance of other aquatic organisms which are concurrently found in fry-collection nets operated in the river Ganga at Dighwara (Bihar) and also an account of the depredation of carp fry caused by the predators.</p> <p>GLK:glk F</p>

Karo, H.A. (1957) 570865
Int.hydr.Rev., 34(2):87-8
 Cont cinquantenaire du "Coast and Geodetic Survey". Recueil d'articles. I. Historique et utilisation de la photogrammetrie au "Coast and Geodetic Survey" (One hundred and fiftieth anniversary of the "Coast and Geodetic Survey". Collection of articles. I. History and use of photogrammetry by the "Coast and Geodetic Survey")

Content as per title.

FAO:efa

M

Kašták, V. (1957) 570868
Biológia, 12:102-12
 Helminthofauna stúk (Esox lucius) Oravskoj priehrady (Helminthofauna in pike (E. lucius) in the artificial lake of Orava). Ru De

Notes on occurrence of Tetraonchus monenteron, Triaenophorus nodulosus and Raphidascaris acus in pike of a river in Slovakia, with ill. notes on their biology.

FAO:efa

F

Karpevitch, A.F. (1957) 570866
Fish.Ind., Moscow, 33(1):60-9
 Rekonstruktsiia rybnogo khoziaistva Azovskogo moria (Reconstruction of fishery in the Azov Sea)

FAO

M

Kašták, V. (1957) 570869
Biológia, 12:137-9
 Nový druh monogenetickej cicavice z rodu Dactylogyrus Diesing, 1850 u Barbus meridionalis petenyi (Heck.) (A new species of monogenetic Dactylogyrus in Barbus meridionalis petenyi (Heck.))

Notes on occurrence of Dactylogyrus petenyi n.sp. in B. meridionalis petenyi of a river in Kosice district, Eastern Slovakia.

FAO:efa

F

Kashiwada K. et al. (1957) 570867
Bull.Jap.Soc.sci.Fish., 22:637-40
 (Studies on vitamin B12 in sea water. II. On the assay method and the distribution of this vitamin B12 in the ocean). Ni En

A method of removing disturbing substances (Cl. and Mg.) by dialysis with cellophane is applied to samples taken by research vessel in N. Pacific from Lat. 0° to 30° N. on the line of Long. 130° E.

SJH:sjh

M

Kasturirangan, L.R. (1957) 570870
Indian J.Fish., 4(1):134-49
 A study of the seasonal changes in the dissolved oxygen of the surface waters of the sea on the Malabar coast

The data on oxygen are presented along with data on temperature; salinity and rainfall are discussed in relation to the physical and biological characteristics of the Malabar coast.

GLK:glk

M

Kato, K. (1957) 570871
Bull.Fac.Fish.Hokkaido, 7(4):291-9
Particulate iron in the Bering Sea

Kawai, K. (1957) 570874
Bull.Jap.Soc.sci.Fish., 22:626-30
(The metabolism of the pearl oyster,
Pinctada martensii. III. On the tissue
oxidation). Ni En

Respiration rates of various tissues in
different seasons; blocking and
stimulation of gill respiration by a
series of chemical treatments, show that
a copper enzyme may play an important
role.

FAO

M

SJH:sjh

M

Katz, W.E. (1957) 570872
Engng News Rec., 158(7):59
Fresh from salt at \$42 per 1000 gallons

Kawamoto, N.Y. (1957) 570875
Progr.Fish Cult., 19(1):26-31
Production during intensive carp culture
in Japan

In this carp farm where rate of
production is noted to be highest in
Japan, the excretory products are
stated to affect production more than
O₂ or CO₂.

MF

WAD:tjj

F

Kawada, S. and Y. Tawar (1957) 570873
Bull.Jap.Soc.sci.Fish., 22:593-7
(An attempt at measuring deformation of
the set net by a fish finder
(Preliminary Report). Ni En

Reports on experiments at Kokabe in
Nov. 1954, and gives illustrations and
theoretical analysis of results.

Konk, R. and W.F. Clapp (1957) 570876
Washington: Office of Technical Services,
U.S. Department of Commerce, 350 p.
(PB131058)
Marine borers: A preliminary biblio-
graphy. Part II

Deals mainly with the biology of marine
borers whereas the first part, which is
available in microfilm or photostat
copies, was concerned primarily with
the engineering aspects.

SJH:sjh

M

:glk

M

Keynes, R.D. (1957) 570877
In "The Physiology of Fishes". Vol. II.
Behaviour. Edited by M.E. Brown,
Academic Press Inc., Publishers, New
York, pp.323-43
Electric organs

Kimata, M. et al. (1957) 570880
Bull.Jap.Soc.sci.Fish., 22:701-7
(Studies on the marine sulfate-reducing
bacteria. VI. Production of sulfides in
the estuarine region of the river
receiving a large amount of organic
drainage (1)). Ni En

Distribution of bacteria, and sulfides
in water and bottom mud of Takano River
which receives sewage and drainage from
pulp factories.

FAO

MF

SJH:sjh

MF

Kiefer, F. (1957) 570878
Veröff.zool.Staatssamml.Münch., 4:125-50
Freilebende Ruderfusskrebse (Crustacea
Copepoda) des Titicacasacs (Crustacea
Copepoda at liberty in lake Titicaca)

Kimmins, D.E. (1957) 570881
Bull.Brit.Mus.(nat.Hist.), 6(4):91-126
Lectotypes of Trichoptera from the
McLachlan collection now in the British
Museum (Natural History)

F

F

Kikawa, S. (1957) 570879
Rep.Nankai reg.Fish.Res.Lab., 5:145-57
(The concentrated spawning area of bigeye
tuna in the western Pacific). Ni En

Study of "gonad index" = weight of gonad
(gm.) cube fork length (cm). Feeding
groups N of subtropical convergence have
index below 1.0; index 1.1 > 3.0 is
more southerly and are recruit spawners;
index > 3.1 are spawners and abundant
between 2° and 10°N. Some data also for
yellowfin.

Kimmins, D.E. (1957) 570882
Bull.Brit.Mus.(nat.Hist.), 6(1):1-37
New and little known species of African
Trichoptera

FAO:sjh

M

F

Kimmins, D.E. (1957) 570883
Bull.Brit.Mus.(nat.Hist.), 6(5):127-36
New species of the genus Dicercomyzon
Demoulin (Ephemeroptera, Fam. Trichory-
thidae)

F

King, J.E. and M.S. Doty (1957) 570886
Spec.sci.Rep.U.S.Fish Wildl.Serv.,
(201):155 p.
Preliminary report on expedition
EASTROPIC

The methods used and the results
obtained, without analysis, on the
EASTROPIC expedition; an oceanographic
survey of the central and eastern
tropical Pacific, September-December
1955. Information on east-west
gradients in temperature, salinity,
phosphate, zooplankton, and forage-fish
abundance.

GLK:tl

M

Kimsey, J.B. (1957) 570884
Calif.Fish Game, 43(2):111-8
Largemouth bass tagging at Clear Lake,
Lake County, California

Migration and survival rate of 441 fish
tagged 6/53 - 3/54 of which 94 were
returned in three years. Estimate of
fishing and natural mortality rates.

WAD:sjh

F

Kinsman, B. (1957) 570887
Tellus, 9(3):408-18
Proper and improper use of statistics
in geophysics

A discussion of some of the
peculiarities of the geophysical
sciences together with their
implications for statistical
methods, particularly for the
correlation coefficient. In
conclusion some advice on the use
of correlations is offered.

FAO:tl

M

Kimsey, J.B. (1957) 570885
Calif.Fish Game, 43(1):99-100
The status of the redeye bass in
California

Clarifies the status of Micropterus
coosae introduced into hatchery ponds
in California in 1953; none survived
after 1955.

TR:wad

F

Kinsman, S. et al. (Ed.) (1957) 570888
U.S.Dep.Health, Education & Welfare,
Publ.Health Serv., Cincinnati, Ohio,
355 p.
Radiological health handbook

Glossary, physical, chemical and
mathematical data; radioisotope, decay
and radioassay data; radiation protec-
tion data; table of isotopes; index
and references.

TL:tl

MF

Kitabayashi, K. (1957) 570889
Bull. Hokkaido reg. Fish. Res. Lab.,
 (16):100-3
 (Biochemical studies on squid - XVII. On
 pterins). Ni En

Paper-chromatographic analysis of skin,
 liver, ink, muscle and shell of
Ommastrephes sloani pacificus.

FAO:sjh

M

Kleerekoper, H. (1957) 570892
Thesis presented at the Faculty of
 Science of the Paris University,
 Ser.A, 3006/3878, 205 p.

Une étude limnologique de la chimie des
 sédiments de fond des lacs de l'Ontario
 méridional, Canada (Study of the
 limnology and sediment chemistry of the
 depths of lakes in southern Ontario,
 Canada)

A detailed description and comparative
 study with very full bibliography.

FiB:sjh

F

Kitakata, M. (1957) 570890
Bull. Hokkaido reg. Fish. Res. Lab.,
 (16):39-48
 (Fishery biological studies on sand-lance
 (Ammodytes personatus Girard) in waters
 around Hokkaido - II. On the age and
 growth). Ni En

Otolith studies, 4/55-5/56 of material
 collected on Japan sea coast show that
 age can be thus determined. Growth
 curves; regional differences; seasonal
 growth; Ill.

FAO:sjh

M

Kleerekoper, H. and 570893
 K. Sibakin (1957)
J. Fish. Res. Bd Canada, 14(2):145-51
 An investigation of the electrical
 "spike" potentials produced by the sea
 lamprey (Petromyzon marinus) in the
 water surrounding the Head Region - II.

Experiments to ascertain whether the
 movements of the water in and out of the
 branchial pores or the changes in the
 chemical composition of the water are
 directly responsible for the occurrence
 of the electrical potentials described
 earlier and to determine the locus or
 loci on the head from which the
 potentials are emitted.

GLK:glk

M

Klavestad, N. (1957) 570891
Nytt Mag. Bot., 5:63-100
 An ecological study of the vegetation
 in Hunnebunnen, an old oyster poll in
 south-eastern Norway

Hydrography of the area; list of flora
 and ecological notes on the saline
 meadows; benthic vegetation and its
 zonation; floral associations and
 general notes on the ecology of the
 area.

FAO:tl

M

Klein, L. (1957) 570894
Butterworths Scientific Publications,
London, 634 p.

Aspects of river pollution

Intended primarily to assist those
 directly concerned with the prevention of
 pollution, such as river boards, local
 authorities, and water undertakings, but
 should also be of interest to public
 analysts, sanitary inspectors, and health
 authorities. The book also includes a
 chapter on the effects of pollution on
 fish, by Jones, J.R.E., and one on the
 biological aspects of river pollution,
 by Hawkes, H.A.

:glk

F

Klock, J.W. (1957) 570895
Amer.J.trop.Med.Hyg., 5:286-9
 A field technique for quantitative estimation of the molluscicide sodium pentachlorophenate based on fish mortality rates

F

Knauss, J.A. and J.L. Reid (1957) 570898
Trans.Amer.geophys.Un., 38(3):320-5
 The effect of circles design on the accuracy of the GEK

Simultaneous observations with a GEK and a drifting drogue were made in order to test validity of the GEK for surface current measurements. Good agreement between the average GEK velocity and the average drogue velocity is obtained when allowance is made for windage and droop.

GLK:tl

M

Knauss, J.A. (1957) 570896
Chron.U.G.G.I., (7):248-9
 U.S. Pacific Ocean deep-water ship operation

Gives brief summary of the operational plans and tentative tract charts for different cruises.

FAO:efa

M

Knobloch, A., C. Vendrely 570899
 and R. Vendrely (1957)
Biochim.biophys.Acta, 24:201-2
 The amount of desoxyribonucleic acid in a single trout sperm

Brief account of determination of desoxyribonucleic acid content of Salmo irideus sperm.

FAO:efa

F

Knauss, J.A. (1957) 570897
Tellus, 9(2):234-7
 An observation of an oceanic front

A detailed temperature section across an oceanic front in the Eastern Equatorial Pacific is described.

FAO:glk

M

Knop, L. and 570900
 J. Kristan (1957).
Rep.J.Stefan Inst., 3:141-8
 Beitrag zur Kenntnis der Wasserisotopenindisproportionierung nach einigen Wandlungsprozessen normalen wassers (Contribution to the knowledge of the disproportionizing of water isotopes after some processes of changes of normal water)

Description of the modified method of oxygen equilibration by SO₂. Results of measurements of isotope distribution in waters of different origin.

:tl

MF

Knox, G.A. (1957) 570901
Trans.roy.Soc.N.Z., 85(1):141-8
Urechis novae-zealandiae (Dendy): a
New Zealand echiuroid

The species is described and illustrated.

FAO:hr

M

Knudson, B.M. (1957) 570902
J.Ecol., 45:93-112

Ecology of the epiphytic diatom,
Tabellaria flocculosa (Roth) Kütz.var.

flocculosa in three English lakes

Population density and its rate of change
measured at 10 day intervals for 4 years
in the Lake District, at various levels
and depths. Relation to environmental
factors, principally light, nutrients,
temperature, grazing, parasitism and
wave action.

FAO:sjh

F

Kobayashi, K. (1957) 570903
Bull.Fac.Fish.Hokkaido, 7(1):21-30

(An experiment on a mid-water trawl.
IV. On its mechanism and a trial
practice). Ni En

Mathematical and experimental study of
a full-scale model having two light
otter boards, a depressor and a depth
indicator.

FAO:sjh

II

Kobayashi, K. and 570904
S. Igarashi (1957)

Bull.Fac.Fish.Hokkaido, 7(1):17-20
Mathematical analysis of the filtering-
rate of plankton net

Deduces an expression for the relation
between filtering rate and current
speed inside a conical net, which is
less than that outside.

FAO:sjh

M

Koch, W. (1957) 570905
Verlag Paul Parey, 300 p.

Fischzucht (Fish breeding). (2nd ed.)

Kohn, A.J. and P. Helfrich (1957) 570906
Limnol.Oceanogr., 2:241-51

Primary organic productivity of a
Hawaiian coral reef

Primary organic productivity was deter-
mined by measuring changes in oxygen
concentration of sea water flowing over
a fringing coral reef at Kapaa, Kauai,
Hawaii. Prevalence of a rather strong,
unidirectional current facilitated use of
this method. Determinations were made
both in summer (July) and in winter
(November). The authors attribute this
difference to photosynthesis by benthic
algae on the coral reef platform.

HR:tl

M

Kojima, S. (1957) 570907
Bull.Jap.Soc.sci.Fish., 22(12):730-5
(Reactions of fish to a shade or floating
substances). Ni En

Describes aquarium experiments with
parrot bass, Oplegnathus fasciatus, and
filefish, Monacanthus cirrhifer.
Species and size differences in feeding
and other reactions.

SJH:sjh

M

Kokhanova, N.A. (1957) 570908
Vop.Ikhtiolog., 8:89-101
Razvitie shchipovki (Cobitis taenia L.)
(The development of Cobitis taenia L.)

Description of the embryonic, larval and
post-larval development and first feeding
with comparison with groundling,
cobitids, and carps.

FAO:glk

F

Kolbe, R.W. (1957) 570909
Rep.Swed.Deep-Sea Exped., 9(1):50 p.
Diatoms from equatorial Indian Ocean

Kolbe, R.W. (1957) 570910
Science, 126:1053-6
Fresh-water diatoms from Atlantic deep-
sea sediments

Reports findings of Melosira granulata,
with notes on location of finds and
origin of fresh-water diatoms.

FAO:efa

MF

Kolesnikov, V.G. (1957) 570911
Fish Ind., Moscow, (11):69-76
O vliianii gidrologicheskikh uslovii na
raspredelenie i povedenie seldi v
Norvezhskom more (Influence of
hydrologic conditions on the distribution
and behaviour of herrings in the sea of
Norway)

Data collected in 1956 by research ships.
Cold and warm currents determined by
wind, bottom relief and tides. Response
of herring shoals to surface waves.
Relation between inner, vertical waves
and depth positions of shoals. Forecasts,
duration of ship's drift, number of nets
in the line.

FAO:go

M

Kolbe, R.W. (1957) 570909
Rep.Swed.Deep-Sea Exped., 9(1):50 p.
Diatoms from equatorial Indian Ocean

Komaki, S. (1957) 570912
Bull.Hokkaido reg.Fish.Res.Lab.,
(15):84-91
(Seasonal variations in the concentrations
of net-plankton pigments in sea water).
Ni En

Chlorophylls and carotenoids estimated
by Richard and Thompson method,
1/54-12/55 in Hokkaido waters.

FAO:sjh

M

Komarovsky, B. and 570913
 O.H. Oren (1957)
Fish.Bull., Haifa, (14):14-6
 (Biological and oceanographical
 conditions in the Gulf of Eylath).
Iw En

Water samples; figures of plankton spp.;
 relation of these to changes in pelamid
 abundance.

SJH:sjh

M

Komarovsky, B. and 570914
 L. Schwarz (1957)
Fish.Bull., Haifa, (11):8-12
 (Problems of ship fouling, history and
 progress of fouling research in Israel).
Iw En

Results of raft tests in Haifa port
 with Cu₂O paints.

SJH:sjh

M

Kominz, D.R., F. Saad 570915
 and K. Laki (1957)
Nature, Lond., 179:206-7
 Vertebrate and invertebrate tropomyosins

Reports the preparation and examination
 of tropomyosins from fishes and various
 invertebrate phyla.

GLK:glk

MF

Konishi, J. (1957) 570916
Rep.Fac.Fish.Univ.Mie-Tsu, 2:347-52
 A clue to the investigation of the
 control of breathing in fish by means
 of electrical activity in the muscle
 located on the regions of the gills

Measures of action potentials on surface
 of gill lamellae of intact Carassius
auratus (L.) on isolated gills, and at
 the respiratory centre.

FiB:sjh

F

Konishi, J. (1957) 570917
Rep.Fac.Fish.Univ.Mie-Tsu, 2:353-8
 Respiratory reflex response in fish

Study of respiratory response to touch
 stimulus in unanaesthetized Carassius
auratus L. by electromyogram recording
 in gill region.

FiB:sjh

F

Konstantinov, K.G. (1957) 570918
Fish Ind., Moscow, (12):61-2
 Argentina - neispolzovannaia promyslovaia
 ryba (Argentina silus (Ascanius) -
 an unutilized commercial fish)

High nutritive value of this deep sea
 salmonid. Brief description of H.
 Atlantic abodes, average sizes, food.
 Precise data on Argentina reserves are
 wanting.

FiB:gc

M

Korobochkina, Z.S. (1957) <u>Fish.Ind., Moscow, 33(1):71-2</u> Soveshchanie po biologicheskim osnovam rybnogo khoziaistva (Meeting regarding biological principles in fishery)	570919	Kosal, N.H. (1957) <u>Balık Balıkçılık, 5(1):8-13</u> İki istinga halatı kullanan gırgırlar (Improving gir-gir seines)	570922
		Translation of article from "World Fishing", May 1956, by a Russian scientist, A.N. Samarynov.	

FAO	MF	SJH:sjh	M
Korringa, P. (1957) <u>Ann.Biol., Paris, 33(3-4):109-16</u> On the supposed compulsory relation between oviparous oysters and waters of reduced salinity Comparison of ecological requirements of oviparous oysters and those of larviparous oysters, with special reference to salinity and food availability.	570920	Koshelev, B.V. (1957) <u>Zool.Zh., 36(8):1217-27</u> Nekotorye dannye po biologii razmnozheniia sazana v del'te Volgi (Certain data on the biology of reproduction of carp in the Volga estuary) Age composition of a carp shoal, its sites and time of spawning, relation of spawning to the level of flood and to the temperature are described.	570923

FiB:glk	MF	FAO:tl	F
Korringa, P. (1957) <u>Ann.Biol., Paris, 33(1-2):1-17</u> Water temperature and breeding throughout the geographical range of <u>Ostrea edulis</u> Examination of the evidence on the temperatures at which various species and varieties of oysters spawn, with reference to the hypothesis that breeding temperature is not a physiological constant, at least for the species <u>Ostrea edulis</u> .	570921	Koster, W.J. (1957) <u>University of New Mexico Press,</u> <u>Albuquerque, 116 p.</u> Guide to the fishes of New Mexico. (1st ed.)	570924

FiB:glk	MF		MF
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<p>Kotake, N. and 570925 M. Kawamura (1957) <u>Bull.Jap.Soc.sci.Fish.</u>, 23(6):287-9 Experimental studies on the propagation of the pearl oyster, <u>Pinctada martenssi</u> - IV. Sexual difference in the external shape of the shell</p> <p>Relation of shell height to length in 3-4 years old shells collected on coast of Hiwasa, Tokushima. Relative growth rates do not permit identification of sex.</p> <p>SJH:sjh M</p>	<p>Kozhin, N.I. (1957) 570928 <u>Vop.Ikhtiol.</u>, 8:8-18 Materialy po ikhtiofaune iranskogo poberezh'ia Kaspiia (Materials on the ichthyofauna of the Iranian shores of the Caspian)</p> <p>Notes on distribution, catch, size, biology, etc. of the following species: <u>Huso huso</u> L., <u>Acipenser guildenstadti</u> persicus Borodin, <u>Acipenser stellatus</u> Linne, <u>Rutilus rutilus caspicus</u> (Jakowlew), <u>Rutilus frisii kutum</u> (Kamonsky), <u>Abramis brama</u> (Linne), <u>Cyprinus carpio</u> Linne, <u>Vimba vimba persa</u> (Pallas), <u>Chalcoburnus chalcoides</u> (Guldentadt), <u>Mugil auratus</u> Risso, <u>M. saliens</u> Risso, <u>Lucioperca lucioperca</u> L. FAO:glk FM</p>
<p>Kott, P. (1957) 570926 <u>Aust.J.Mar.Freshw.Res.</u>, 8:64-110 The ascidians of Australia - II. Aplousobranchiata Lahille: Clavelinidae Forbes and Hanly and Polyclinidae</p> <p>Description, distribution, keys and full bibliography.</p> <p>GLK:sjh M</p>	<p>Kramp, P.L. (1957) 570929 'Discovery' Rep., 29:1-28 Hydromedusae from the Discovery collections</p> <p>A taxonomic list. Under each species are given the most important references to the literature, list of collection stations, history, remarks on the morphology and the geographic distribution. A summary of zoogeographical results is also given.</p> <p>FAO:hr M</p>
<p>Kotthaus, A. and G. Krefft (1957) 570927 <u>Ber.dtsch.Komm.Meeresforsch.</u>, 14(3):169-91 <u>Fischfaunenlisteder Fahrten mit F.F.S. ANTON DOHRN nach Island-Grönland</u> (The faunal list of fishes from the cruises of the ANTON DOHRN to Iceland-Greenland)</p> <p>List of species with dates of capture, area depth of water, temperature of the bottom water. The number of fish caught in each locality and their length range. Notes on the species, first recorded in the area of investigation.</p> <p>FAO:tl M</p>	<p>Krauss, W. (1957) 570930 <u>Dtsch.hydrogr.Z.</u>, 10(1):13-9 Das Zirkulationstheorem von V. Bjerknes und seine Anwendung in der Ozeanographie (V. Bjerknes' circulation theorem and its application to oceanographic research)</p> <p>From V. Bjerknes' circulation theorem a new formula is derived allowing practical computations of ocean currents to be made. The range of validity of the old formula can be deduced from the new one if the order of magnitude of horizontal shearing as well as that of the divergences are known.</p> <p>FAO:tl M</p>

<p>Kreiss, H. (1957) 570931 <u>Tellus</u>, 9:53-68 Some remarks about nonlinear oscillations in tidal channels</p> <p>With the aid of a perturbation method the equations are integrated and it is shown that for sufficiently small ratio maximum of the flow/mean depth one can approximate the solution by two harmonics. This approximation is examined in detail.</p>	<p>Krishna Pillai, V. (1957) 570934 <u>Proc.Indian Acad.Sci.</u>, 45B:101-21 Chemical studies on Indian seaweeds. 3. Partition of sulfur and its relation to the carbohydrate content</p>
<p>FAO:t1 M</p>	<p>M</p>
<p>Krey, J., K. Banse and (1957) 570932 E. Hagmeier <u>Kieler Meeresforsch.</u>, 13(1):35-40 Über die Bestimmung von Eiweiss im Plankton mittels der Biuretreaktion (On the determination of albumen in plankton by biuret reaction). En</p> <p>Description of the method.</p>	<p>Krishnamurthi, B. et al. (1957) 570935 <u>Proc.Indian Acad.Sci.</u>, 45B:165-75 Investigation of large-scale fish mortality in a temple tank in Madurai</p>
<p>TL:t1 M</p>	<p>F</p>
<p>Krishna Pillai, V. (1957) 570933 <u>Proc.Indian Acad.Sci.</u>, 45B:43-63 Chemical studies on Indian seaweeds. 2. Partition of nitrogen</p>	<p>Kruglova, V.M. (1957) 570936 <u>Vop.Ikhtiol.</u>, 8:116-28 Kormovaya baza bentoiadnykh ryb Veselovskogo vodokhranilishcha i prichiny tugoroslosti sazana (Fodder basis of benthos-feeding fish of the Veselovsky reservoir and the reasons for the slow growth of carp)</p> <p>History of the reservoir since 1933; discussion of the benthos and its provision of food for carp and sudak with proposals for establishment of most useful benthic fauna.</p> <p>FAO:glk F</p>

Kryzhanovskii, S.G. (1957) <u>Vop.Ikhtiolog.</u> , 8:81-8 O partenogeneticheskom razvitii Sakhalinskoi sel'di po materialam nerestovogo sezona 1955 g. (On parthenogenetic development of the Sakhalin herring from materials of the 1955 spawning season)	570937	Kühl, H. and H. Mann (1957) <u>Veröff.Inst.Meeresf.</u> , 5(1):34-62 Beiträge zur Hydrochemie der unteren Weser (Contribution to the hydro- chemistry of the lower Weser)	570940
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Data on water temperature, salinity, pH, alkalinity, carbonate content, oxygen, silicon, nitrogen compounds, phosphates, iron and manganese and turbidity of the lower Weser.

FAO	M	GLK:tl	MF
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Kudinova-Pasternak, R.K. (1957) 570938
Zool.Zh., 36(6):847-51
On the penetration possibility of Torpedo
navalis into the Caspian Sea

Experimental proof of this possibility
and quarantine proposals that might
control it.

Kufferath, H. (1957) 570941
Bull.Inst.oceanogr., Monaco, (1089):1-10
Examen microscopique d'ultraplankton
recueilli au large de Monaco
(Microscopic examination of the ultra-
plankton collected off Monaco)

Describes the organisms collected.

FAO:glk	M	FAO:hr	M
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Kudriavtseva, E.S. (1957) 570939
Zool.Zh., 36(9):1292-303
Parasitofauna ryb reki Sukhony i
Kubenskogo ozera (Parasitofauna of
the fishes inhabiting the Sukhona river
and the Kubenskoe lake)

During the spring and summer of 1951-1954,
778 examples of fishes pertaining to
different species were exposed to the
complete parasitological dissection.
96 species of parasites have been found,
36 of them were recorded for the first
time in the European region. A number of
parasites pathogenetic with respect to
man and other species of fish were found.

Kufferath, J. (1957) 570942
Bull.Inst.oceanogr., Monaco, (1088):1-8
Tentative d'estimation gravimétrique de
l'ultraplankton dans l'eau de la
Méditerranée (Tentative gravimetric
appraisal of the ultraplankton in
Mediterranean waters)

Describes methods and experiments to
measure the quantity of bacteria and
other components of the ultraplankton
in sea water.

FAO:tl	F	FAO:hr	M
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Kunze, W. (1957) 570943
Int.hyd.r.Rev., 34(2):65:75
Aspects généraux du sondage acoustique
horizontal pour la navigation
(General aspects of the application of
horizontal acoustic sounding to
navigation)

Brief description of methods and
apparatuses at present available and
discussion of general aspects of their
use with special reference to the
merchant marine.

FAO:glk

M

Kuznetsov, A.P. (1957) 570944
Fish Ind., Moscow, (10):44-6
Polia pitaniia domnykh promyslovykh ryb
i kamchatskogo kraba v raione Severnykh
Kurilskikh ostrovov (Feeding grounds
of demersal commercial fishes and of
Kamchatka crabs off the coasts of the
North Kuril islands)

Importance of the region illustrated by
catches. Data obtained by research ships
on species, amounts and distribution of
benthic live food serving cod, flatfish
and crab (Paralithodes camtschatica).

FAO:go

M

Laclavère, G. (1957) 570945
Chron.U.G.G.I., 6:211-39
International Geophysical Year - IVth
Antarctic Conference

Agenda, minutes and resolutions of the
IVth Antarctic Conference.

TL:tl

M

Lacombe, H. (1957) 570946
Météorologie, 371-91
L'énergie des mers (Energy in seas)

Lacombe, H. (1957) 570947
Rev.Quest.sci., 20 July 1957
L'océanographie physique (Physical
oceanography)

Ladd, H.S. (Ed.) (1957) 570948
Mem.geol.Soc.Amer., (67), 1077 p.
Treatise on marine ecology and
paleoecology; Vol.2, Paleocology

Contains 24 chapters by different authors
on the Paleontological Record and the
Origin of Life, and Analyses from the
Geologic Record; also 53 annotated
bibliographies for different systematic
groups, periods and areas. Index by
subjects, spp., and authors.

FAO:sjh

M

La Fond, E.C. (1957) 570949
Indian J.Met.Geophys., 8:213-7
Sea water density at four stations on
the east coast of India

Marine Biological Laboratory
LIBRARY
OCT 23 1959
WOODS HOLE, MASS.

Lafuste, et al. (1957) 570952
Rev.Trav.Inst.Pêches marit., 21:401-14
La reproduction de l'huitre portugaise
(Gryphaea angulata Lmk) dans les
centres de captage de la côte atlantique
(Reproduction of the Portuguese oyster (G. angulata Lmk)
in the catchment centres on the Atlantic coast)

Account of collections of larvae in
relation to temperature and other
environmental conditions.

M

FAO:glk

M

La Fond, E.C. and 570950
P.V. Bhavanarayana (1957)
Indian J.Met.Geophys., 8:209-12
On a thermal feature of bottom water
during upwelling on the east coast of
India

Lamburn, J.B. 570953
(Crompton, J.) (1957)
Garden City, N.Y., Doubleday, 233 p.
The living sea

M

M

La Fond, E.C. et al. (1957) 570951
Indian J.Met.Geophys., 8:183-92
Turbidity of waters off the east coast
of India

Lane, C.E. (1957) 570954
Sea Frontiers, 3:113-9
Living power plants

Popular account of occurrence and
physiology of electric fishes.

M

HR:sjh

MF

Lange, O. (1957) 570955
Sankhya, 17:305-36
Some observations on input-output analysis

Account of discussions on analysis of inter-industry relations for establishing quantitative relations between various branches of production.

FAO:efa

MF

Langeraar, W. (1957) 570956
Int.hydr.Rev., 34(2):31-6
Emploi du Decca comme aide aux lèves hydrographiques de la Nouvelle Guinée Néerlandaise (Use of Decca in hydrographic surveys of Netherlands New Guinea)

Narrative account of operations.

FAO:glk

M

Lapage, G. (1957) 570957
Penguin Books Ltd, Harmondsworth, Middlesex, 1957, 320 p
Animals parasitic in man

Includes accounts of biology and control of human parasites with an aquatic intermediate host: Diphyllbothrium latum (in freshwater fish: Cyclops and Diaptomus); Opisthorchis sinensis, Metagonimus yokogawai, Heterophyes h. (in freshwater fish, especially Plecoglossus altivelis, and snails); Paragonimus westermanii (in freshwater decapods and snails); Opisthorchis sinensis (in cyprinids and snails).

SJH:sgk

P

LaPointe, J.R. (1957) 570958
Nucleonics, 15(5):114-6
How radioactive wastes will be handled at PWR

MF

Larrañeta, M.G. and 570959
J. López (1957)
Invest.pesq., 6:53-82
El crecimiento de la sardina (Sardina pilchardus (Walb.)) de las costas de Castellón (The growth of sardine from Castellon coast)

Study based on scale reading. Scale to length relation were determined. The results are discussed with regard to age-composition of catch, the limiting size, differences in growth, and the period of growth and the causes thereof.

FAO:glk

M

Larsen, J.A. (1957) 570960
Madison, University of Wisconsin, 160 p.
Wisconsin's renewable resources; research at the University of Wisconsin into the renewable resources of field, forest, lake, and stream.

F

<p>Laserson, C.F. (1957) 570961 <u>Aust.Zool.</u>, 12:263-82 New South Wales mussels - A taxonomic review of the family Mytilidae from the Peronian zoogeographical province</p> <p>21 species are discussed and figured; one generic and five new specific names are listed together with two new records from the Province. Original descriptions have been amplified, taxonomic comparisons made, and new data added on the distribution of the various species.</p> <p>FAO:glk M</p>	<p>Lassarat, A. (1957) 570964 <u>Sci.Pêche</u>, 44:1-6 La pêche du thon en Côte d'Ivoire (Tuna fishery in the Ivory Coast)</p> <p>Notes on the occurrence and fisheries of <u>Neothunnus albacora</u>, <u>Katsuwonus pelamis</u> and <u>Euthynnus alliteratus</u>.</p> <p>FAO:hr M</p>
<p>Láska, F. (1957) 570962 <u>Biológia</u>, 12:292-7 Příspěvek k poznání vodulí (Hydrachnellae) Vysokých Tater I. Druh <u>Wandesia thori</u> Schechtel 1912 (Contribution to the knowledge of Hydrachnellae in High Tatra). Ru De</p> <p>Reports findings of <u>Wandesia thori</u> Schechtel and incl. ill. notes on the biology of the sp.</p> <p>FAO:efa F</p>	<p>Laughton, A.S. (1957) 570965 <u>Deep-Sea Res.</u>, 4:120-5 A new deep-sea underwater camera</p> <p>A deep-sea underwater camera containing several new design features is described. Some examples of its use in biological and geological surveys of the ocean floor are given.</p> <p>FAO:tl M</p>
<p>Lasker, R. and R.W. Holmes (1957) 570963 <u>Nature, Lond.</u>, 180:1295-6 Variability in retention of marine phytoplankton by membrane filters</p> <p>Three laboratory experiments to determine the retention of <u>Dunaliella euchlora</u>, a phytoflagellate grown in sea-water medium, by using membrane filters of different porosities.</p> <p>GLK:tl M</p>	<p>Laughton, A.S. (1957) 570966 <u>Discovery</u>, 18(2):59-62 Photography of the deep-sea floor</p> <p>Illustrated account of camera design and operation.</p> <p>FAO:sjh M</p>

Laughton, A.S. (1957)
J.R. Soc. Arts, 106:39-56
Exploring the deep ocean floor

570967

Reviews the aim and modern techniques of deep-sea exploration and gives a brief account of the joint geophysical cruise planned by Department of Geodesy and Geophysics at Cambridge and the National Institute of Oceanography.

GLK:efa

M

Lauzier, L. (1957) 570970
Bull.Fish.Res.Bd Can., (111):287-317
Hydrographic features of the waters of the Bay of Islands, Newfoundland, in the autumn

The seasonal temperature variations indicate a slow vernal warming and a rapid autumnal cooling. Year-to-year variations in the autumn temperature stratification occurred chiefly in the upper layers. Repeated observations during a tidal cycle at several stations in the area show variations in depth of either the thermocline, or the isotherms, or both. The salinity stratification in the upper ten metres of the surface

Lauzier, L. (1957) 570968
Bull.Fish.Res.Bd Can., (111):269-85
Bottom temperatures on the Magdalen Shallows

The distribution of bottom temperatures on the Magdalen Shallows and their seasonal variations. The stratification of the waters in the area is considered to be a controlling factor of such variations. The characteristics of the layers, mainly their depth, thickness and temperature, vary with time and space. The bottom temperature is then a function of depth, time and location.

FAO:glk

M

570970
(card 2)
layer is very variable, presumably depending to a certain extent of the run-off from the Humber River system.

FAO:glk

MF

Lauzier, L. (1957) 570969
Bull.Fish.Res.Bd Can., (111):185-92
Effects of storms on the water conditions in the Magdalen Shallows

Extreme variations in temperature and salinity have been observed at depth, during the summer months, off North Rustico, P.E.I. and Cheticamp, N.S. These were correlated with wind force and direction, controlling factors of internal adjustment of water layers according to Ekman's theory of wind-driven currents.

FAO:glk

II

Lauzier, L. (1957) 570972
Bull.Fish.Res.Bd Can., (111):193-4
The St. Lawrence spring run-off and summer salinities in the Magdalen Shallows

During the years 1945-49 the minimum salinity of the southwestern Gulf of St. Lawrence tended to vary inversely with the estimated April-June run-off from the St. Lawrence watershed.

FAO:glk

III

Lauzier, L. (1957) 570973
Bull. Fish. Res. Bd. Can., (111):251-68
 Variations of temperature and salinity
 in shallow waters of the southwestern
 Gulf of St. Lawrence

Analysis of repeated temperature and
 salinity observations at fixed stations
 in the southwestern Gulf of St. Lawrence,
 during the period 1945-49, show that
 minimum surface salinity and maximum
 summer temperature occur in the area
 from early to mid-summer depending on
 the location. Below the surface, the
 maximum temperature and minimum salinity
 occur at a later date than at the
 surface.

FAO:glk

M

Lauzier, L. and W.B. Bailey (1957) 570974
Bull. Fish. Res. Bd. Can., (111):213-50
 Features of the deeper waters of the Gulf
 of St. Lawrence

Several cruises in the Gulf of St.
 Lawrence in 1947 and 1948 enabled the
 seasonal changes in the stratification
 of the deeper waters of the Laurentian
 Channel to be studied. The intermediate
 cold-water layer and the warmer deep
 layer are dealt with.

FAO:glk

M

Lauzier, L., R.W. Trites 570975
 and H.B. Hachey (1957)
Bull. Fish. Res. Bd. Can., (111):195-212
 Some features of the surface layer of
 the Gulf of St. Lawrence

Temperature observations in the Gulf of
 St. Lawrence from 1914 to 1948 inclusive
 are analysed. Average conditions such as
 thickness and temperature distribution,
 from May to November, are described.
 Temperature and salinity distribution
 at the surface and at 50 metres during
 three seasonal cruises are also
 discussed.

FAO:glk

M

Law, P. and J. Bécjervaise (1957) 570976
Melbourne, Oxford University Press, 150 p.
 ANARE Australia's Antarctic outposts

Account of recent survey expeditions
 describing the operations, icebergs,
 various areas of the territory and some
 of the fauna.

:glk

MF

Lawford, A.L. and 570977
 V.F.C. Volcy (1957)

Trans. Amer. geophys. Un., 38(4):585-6
 Discussion of "Evidence for a critical
 wind velocity for air-sea boundary
 processes" and "Change in the relation-
 ship between wind and surface water
 movement at higher wind speeds"

Discussion of the original articles by
 Mandelbaum, H. (1956), Trans. Amer.
geophys. Un., 37(6):685-90, and by
 Lawford, A.L. et al. (1956), Trans. Amer.
geophys. Un., 37(6):691-3. The results
 obtained with different methods for the
 relationship between wind velocity and
 movement of the surface water.

GLK:tl

M

Laws, R.M. (1957) 570978
Nature, Lond., 179:1011-2
 Polarity of whale ovaries

The corpora albicantia of the ovaries of
 fin whales (Balaenoptera physalus) and
 blue whales (B. musculus) are grouped
 towards the anterior pole of the ovary.
 The asymmetry is more accentuated in fin
 whales than in blue whales implying that
 ovulation generally takes place from the
 anterior part of the ovary which lies
 in close relation to the ostium
 abdominale.

GLK:hr

M

Lawson, G.W. (1957) 570979
J.W.Afr.Sci.Ass., 3(2):166-74
Some features of the intertidal ecology
of Sierra Leone

The coastline of the Sierra Leone peninsula is described and relevant information given concerning the physical conditions, tides, and currents that influence it. The general features of the intertidal zonation of some common organisms on the rocks in the estuary, and on the west-facing coast of the peninsula are described.

FAO:tl

Lea, C.H. (1957) 570980
J.Sci.Fd Agric., 8(1):1-32
Deteriorative reactions involving
phospholipids and lipoproteins

Describes method of aerating oxygen-depleted deep layers of lakes unable to support destructive oxidation of objectionable organic sediments by a ship which draws up and aerates the water.

FAO:wad

F

le Danois, E. (1957) 570981
George G.Harrap and Co.Ltd, London,
190 pp.
Fishes of the world

A comprehensive encyclopedia of the world's fishes, incl. scientific data on the various spp. and habitats. 6 chapters on some natural laws in the ocean; the northern, temperate, tropical and southern regions; and the depths of the ocean.

:glk

MF

Legand, M. (1957) 570982
Rapp.sci.Socet.Océanogr.Inst.franç.
Océanie, (1):5 p.
ORSOM III - Résultats biologiques de
l'expédition EQUAPAC (ORSOM III -
Biological results of EQUAPAC
expedition)

Report on 300 plankton collected, fish caught and the activities of birds and predatory fish.

TL:glk

M

Légaré, J.E.H. (1957) 570983
J.Fish.Res.Bd Can., 14:521-52
The qualitative and quantitative
distribution of plankton in the Strait
of Georgia in relation to certain
oceanographic factors

The distribution of physical and chemical properties of the water is described and the extent to which these properties may determine the presence or absence of certain organisms in the plankton, is discussed. Composition, abundance and distribution of the plankton are reported.

GLK:glk

M

Leicester, J. (1957) 570984
Brit.chem.Engng., 2:364-7
Nuclear heat for desalting brackish or
salt water

MF

Leim, A.H. (1957) 570985
Bull.Fish.Res.Bd Can., (111):177-84
Fatness of herring in Canadian Atlantic waters

Fat determinations, by ether extraction, were made on 154 samples of herring from the Gulf of St. Lawrence, the outer coast of Nova Scotia and southern and western Newfoundland from 1944 to 1949.

FAO:glk

M

Lomercier, A. (1957) 570988
C.R.Acad.Sci., Paris, 244:1280-3
Sur le développement in vitro des
embryons d'un crustacé isopode asellote:
Jaera marina (Fabr.) (On the
embryonic development in vitro of an
asellote isopod crustacean: Jaera
marina (Fabr.))

Description of culture experiments with this species at various temperatures.

FAO:sjh

M

Leim, A.H., S.N. Tibbo 570986
and L.R. Day (1957)
Bull.Fish.Res.Bd Can., (111):35-83
Explorations for herring in Canadian Atlantic waters, 1945-50

Statistical data on herring; explorations with sonic sounding, purse seining, bottom trawling, mid-water trawling and gill netting.

FAO:glk

M

Lénier, R. (1957) 570989
France Pêche, 2(11):18
La concentration des poissons migrateurs
(The concentration of migrating fish)

Brief discussion on the distribution of tuna and other species.

FAO:glk

M

Leitilä, N. (1957) 570987
FiskTidskr.Finl., 64(1):20-1
Kalan suomen kasvurenkaan muodostumisesta
(The formation of year rings on the fish scale)

Notes on the time of year-ring formation by carp.

FAO:tl

F

Lennon, R.E. (1957) 570990
Progr.Fish Cult., 19:179-81
Observations on wild, long-jaw rainbow trout

Describes the occurrence and characteristics of a mandibular anomaly in Salmo gairdneri from a stream in the southern U.S.

WAD:wad

F

Lenoble, J. (1957) 570991
Bull.Com.cent.Océanogr., 9(10):551-64
Spectrophotomètre photoélectrique sous-
marin (Underwater photoelectric
spectrophotometry)

Discussion of the physical problems
involved; description of the apparatus
and report of results obtained from
first trials.

FAO:glk

M

Levvy, G.A., A.J. Hay 570994
and C.A. Marsh (1957)
Biochem.J., 65:203-8
Properties of limpet β -glucuronidase

Account of work for distinguishing
between Patella vulgata β -glucuronidase
and the other hexuronidases present in
preparation.

FAO:efa

M

Lévêque, R. (1957) 570992
Terre et la Vie, 2-3:231-40
Notes sur la faune ichthyologique de
Camargue (Notes on the ichthyological
fauna of Camargue)

Notes on the local distribution, abundance
and size of fresh, brackish and marine
species of fish.

FAO:hr.

MF

Lewin, R.A. (1957) 570995
Canad.J.Res.(Bot.), 35(3):321-6
Four new species of Chlamydomonas

Four new species of Chlamydomonas are
described. C. euryale was isolated from
sea water; C. mexicana, C. philotes, and
C. ulvaënsis were isolated from soil.
C. mexicana is heterothallic, and C.
philotes homothallic.

FAO:tl

M

Levi, C. (1957) 570993
Bull.Res.Coun.Israel, 6B(3-4):201-12
Spongiaires des côtes d'Israel
(Spongiae of the coasts of Israel)

Illustrated description of 30 spp., one
of which, Axinella minuta nov. sp. is
new.

FAO:sjn

M

Lewis, B.L. (1957) 570996
Amer.Scient., 45(3):178A-86A
Mapping scientific progress

Discusses the possibility of obtaining
an outline map of the state of science
and its probable advantage.

FAO:cfa

MF

Lewis, J.R. (1957) 570997
Oikos, 8(2):130-60
 An introduction to the intertidal ecology
 of the rocky shores of a Hebridean
 Island

General account of the more important
 components of the rock shore populations
 of North Uist in the Outer Hebrides.

FAO:sjh

M

Libonati, M. (1957) 571000
Ric.sci., 27:1848-52
 Osservazioni sulla respirazione degli
 spermi di riccio di mare (Observations
 on the respiration of sea-urchin
 spermatozoa)

The action of several intermediary
 compounds of the Krebs cycle and of
 several aliphatic alcohols upon the
 respiration of sea-urchin spermatozoa
 was investigated. These substances,
 whereas they increase sperm respiration,
 are not metabolized by the cells.

FAO:sjh

M

Lewis, R.M. (1957) 570998
Spec.sci.Rep.U.S.Fish Wildl.Serv., 204:1-10
 Comparative study of populations of the
 striped bass

Account of study to determine value of
 gill raker counts as a taxonomic tool
 in classifying populations of Roccus
saxatilis of US.

FAO:efa

MF

Liedes, M. (1957) 571001
FiskTidskr.Finl., 64(5):139-41
 Kalaveden ha-arvon arvioimisesta
 (Evaluation of hectare value in fishery
 waters)

Notes on the evaluation of economic
 productivity of water areas.

FAO:tl

MF

Li, Sze-chung (1957) 570999
Acta zool.sinica, 9:227-32
 (On a new fish, Lembeichthys furcocauda-
lis sp. nov. (Blenniidae) from South
 China Sea). Ch En

Describes the new species together with
 redescription of the related genus.

FAO:hr

M

Lietmann, H. (1957) 571002
Fischwirt, (7):178-80
 Richtige Laichteiche sichern das
 Laichgeschäft bei Kaltlufteinbrüchen
 (Proper spawning pond ensures spawning
 during cold frosts)

Construction of spawning ponds for
 carp.

FAO:tjj

F

Lillelund, K. (1957) 571003
Kurze Mitt.Inst.FischBiol.Univ.Hamburg,
(1):29-39

Versuche zur Verdauungsgeschwindigkeit bei der Brut vom Hecht (Esox lucius L.), kleiner Maräne (Coregonus albula L.) und grosser Maräne (Coregonus holmsatus Thienemann) (Experiments in estimation of the digestion speed in the brood of pike (Esox lucius L.), vendace (Coregonus albula L.) and whitefish (Coregonus holmsatus Thienemann))

Eurytemora affinis was fed for one hour to fry which were then transferred to an aquarium with cyclopids; the passage of the calanids and cyclopids through the alimentary tract was recorded by hourly sampling.

FAO:glk

F

Lindroth, A. (1957) 571006
Arch.Hydrobiol.(Plankt.), 53:582-97
Abiogenic gas supersaturation of river water

FAO

F

Limbert, D.W.S. (1957) 571004
Mar.Obs., 27(175):28-31
Voyage of Royal Society's advance party to the Antarctic

Description of the voyage with data on sea surface temperature.

FAO:tl

M

Lindsey, C.C. (1957) 571007
J.Fish.Res.Bd Can., 14:651-68
Possible effects of water diversions on fish distribution in British Columbia

The known distributions of freshwater fishes in drainages of the British Columbia mainland are summarized, including those of five species not previously recorded from the province. The biological consequences of certain proposed water diversions are discussed.

GIK:glk

F

Lindauer, V.W. (1957) 571005
Trans.roy.Soc.N.Z., 85(1):61-74
A descriptive review of the Phaeophyceae of New Zealand

Gives a system of keys for the taxonomic and ecological classification of the New Zealand Phaeophyceae.

FAO:chr

M

Lineikin, P.S. (1957) 571008
G.R.Acad.Sci.U.R.S.S., 116:389-92
Ob ustanovivshikhsia vetrovykh techeniikh i rasprede'lenii plotnosti v glubokom more (Steady wind-driven currents and distribution of density in deep seas)

Calculations, in which the turbulent diffusion in seas with varying depths is disregarded.

FAO:go

M

Lisitzin, E. (1957) 571009
C.R.Acad.Sci.U.R.S.S., 115(6):1107-10
 Novye dannye o moshchnosti i usloviakh
 zaleganiia rykhlykh otlozhenii severo-
 zapadnoi chasti Tikhogo okeana
 (New data on the thickness and bedding
 conditions of soft deposits in the north-
 western part of the Pacific)

Lisitzin, E. (1957) 571012
Merentutkimuslait.Julk., 170:1-78
 Vedenkorkeusarvoja 1949 ja 1950
 (Water level records for the years
 1949-50)

Data from 13 marcographs and 11
 stations along the Finnish coast.

FAO

M

FAO:t1

M

Lisitzin, E. (1957) 571010
J.Cons.Int.Explor.Mer., 22(2):147-51
 The tidal cycle of 18-6 years in the
 oceans

Regional distribution of sea-level
 oscillation is described, phase lag
 between stations is related to longitude,
 N. or S. hemisphere, or whether coast
 is to West or East.

Liston, J. (1957) 571013
J.gen.Microbiol., 16:205-16
 Occurrence and distribution of bacterial
 types on flatfish

GLK:sjh

M

M

Lisitzin, E. (1957) 571011
Merentutkimuslait.Julk., 175:1-12
 The frequency of extreme heights of sea
 level along the Finnish coast

Analyses on seasonal occurrence of
 maximum sea levels along Finnish coasts.

Littmann, W. (1957) 571014
Commun. pure appl.Math., 10(2)
 On the existence of periodic waves near
 critical speed

FAO:t1

M

M

Liu, H.K. (1957) 571015
Proc. Amer. Soc. civ. Engrs, 83, HY2, (1197):
23 p.
Mechanics of sediment-ripple formation

M

Liubimova, T.G. (1957) 571016
Fish. Ind., Moscow, (12):62-4
O raspredelenii shprota v severo-zapadnoi
chasti Chernogo moria (Distribution
of sprat in the N.W. areas of the Black
Sea)

Tentative study of the behaviour and
distribution of sprat (Sprattus sprattus
phalericus) in the Black Sea. Preference
of colder areas and strata, due to
northern origin of this fish, should
guide further studies in view of
commercial fishing.

FiB:go

M

Llewellyn, J. and 571017
J.E. Green (1957)
J. Mar. biol. Ass. U.K., 36(1):77-9
The occurrence at Plymouth of
Dictyocotyle coeliaca Nybelin, 1941
(Trematoda: monogenea)

In a sample of over 1000 rays the 'very
rare' monogenetic trematode Dictyocotyle
coeliaca Nybelin 1941 (total of four
previous records) was found in the
coelom of 35 out of 135 specimens of Raia
naevus, but absent from 478 R. clavata,
420 R. montagui and 34 R. brachyura.

HR:hr

M

Loeb, H.A. (1957) 571018
N.Y. Fish Game J., 4(1):109-18
Night collection of fish with electricity

MF

Logie, R.R. (1957) 571019
Circ. Atlant. biol. Sta. gen. Ser., (28):3 p.
Recent oyster mortalities and a method
for restoring the fishery

Reports account of mortalities up to
date in Atlantic coast of Canada and
describes method of rehabilitation.

FAO:efa

M

Long, E.J. (1957) 571020
Sea Frontiers, 3:67-72
Water from the sea

Popular description of the methods of
obtaining fresh water from the sea.

HR:tl

MF

Long, J. (1957) 571021
Sea Frontiers, 3(3):130-41
Anglers versus spearmen

Describes the activities of spear fishermen and the controversy that has grown up between them and line fishermen.

FAO:glk

M

Loomis, W.F. (1957) 571024
Science, 126:735-9.
Sexual differentiation in Hydra

Quantitative study of the role of the partial pressure of CO₂ as external stimulant of sexual differentiation and discussion of known and possible instances of control of biological phenomena by pCO₂.

FAO:glk

F

Longhurst, A.R. (1957) 571022
Nature, Lond., 179:542-3
Density of marine benthic communities off West Africa

Some quantitative data on the standing crop of benthos biomass in subtropical waters.

GLK:tl

M

López, J. (1957) 571025
Invest.pesq., 6:83-109
Peces jóvenes del litoral de Castellón (Young fish from the coast of Castellon)

The monthly distribution of young fishes of 31 species trawled off the coasts of Castellon (Western Mediterranean). Length, number and weight are connected with depth. The results are discussed with regard to present restrictions on fishing.

FAO:glk

M

Longuet-Higgins, M.S. (1957) 571023
PhilTrans., 249A:321-87
The statistical analysis of a random, moving surface

A mathematical model applicable to distribution of surface waves in open oceans.

:sjh

M

Lorenz, K.Z. (1957) 571026
Pan Books Ltd., London, 221 p.
King Solomon's ring - New light on animal ways

New edition of 1952 publication, which includes accounts of behaviour of fish and other aquatic organisms.

SJH:sjh

MF

Louisiana Wildlife and Fisheries Commission (1957) 571027
Louisiana Conserv., 9:16
Water hyacinth control

Progress report on the fight against the water hyacinth. Photographs showing equipment, and clogged and cleared areas.

FAO:wad

F

Loveridge, A. (1957) 571028
Bull.Mus.comp.Zool.Hary., 117(2):151-362
Check list of the reptiles and amphibians of East Africa

MF

Lowe, R.H. (1957) 571029
Rev.Zool.Bot.afr., 55
Observations on the diagnosis and biology of Tilapia leucostica Trewavas (Pisces: Cichlidae) in East Africa

M

Lowenstein, O. (1957) 571030
In "The Physiology of Fishes". Vol. II. Behaviour. Edited by M.E. Brown, Academic Press Inc., Publishers, New York, pp.155-86
The sense organs. Part II. The acoustico-lateralis system

FAO

MF

Lowry, C.C. (1957) 571031
Int.hydr.Rev., 34(2):9-14
Installation d'un petit service hydrographique. Histoire du service des lèves hydrographiques de la Nouvelle Zelande (Establishment of a small hydrographic service. History of the New Zealand hydrographic survey service)

Account of arrangements for assembly of staff, equipment and sea-going facilities.

FAO:glk

M

Lubianov, I.P. (1957) 571032
Zool.Zh., 36(6):820-9
Benthaf fauna of the lower course of the Dnepr and of Kakhovka water reservoir in the first year of its existence

Discusses the peculiarities of the quantitative development and qualitative composition of the benthaf fauna in the lower course of the Dnepr based on the data of investigations carried out in 1952-55. The principal changes in the benthaf fauna composition connected with the formation of Kakhovka water reservoir are briefly described.

FAO:glk

F

Lühmann, M. and H. Mann (1957) 571033
Fischwirt., (7):169-71
 Zur Blumenkohlkrankheit der aale
 (On the "Cauliflower" disease of the
 eel)

Short description of the disease and
 its distribution in the Baltic and
 North Sea.

FAO:tl

M

Lund, W.A. (1957) 571036
Spec.sci.Rep.U.S.Fish Wildl.Serv.,
 (216):24 p.
 Morphometric study of the striped bass,
Roccus saxatilis

Standard lenght, head length, predorsal
 distance, propelvic distance, body
 depth, and caudal-peduncle depth were
 the characters used. The data were
 analyzed by appropriate F-tests in an
 analysis of covariance. Standard
 length was used as the independent
 variable in all comparisons, and all
 other characters were employed as
 dependent variables.

GLK:glk

MF

Lüneburg, H. (1957) 571034
Veröff.Inst.Meeresf., 5(1):63-92
 Die Oberflächenbeschaffenheit bostimmter
 Wattypen der Wesermündung (The
 nature of the surface of certain types
 of tidal flats in the Weser estuary)

Description of the methods used to
 investigate tidal mud flats; morphological
 description and the distribution of
 grain size, organic matter, iron,
 manganese and alkaline metals on the
 tidal flats.

GLK:tl

MF

Lundblad, O. (1957) 571037
Ark.Zool., 10(1-3):306 p.
 Zur Kenntnis süd- und mitteleuropäischer
 Hydrachnellen (On the knowledge of
 hydrachnelles from South and Middle
 Europe)

Taxonomic description.

FAO:tl

M

Lumby, J.R. (1957) 571035
World Fish., May 1957
 Charting the seas to help trawlermen

Popular description of the significance
 and use of information on currents and
 the physico-chemical qualities of
 fishery waters.

SJH:tl

M

Lunol, M. (1957) 571038
Int.hydr.Rev., 34(1):21-33
 Utilisation des systèmes de radio-loc-
 alisation et du sondage ultra-sonore en
 hydrographie (Utilization of systems
 of radio-localization and ultra-sounding
 for soundings in hydrography)

Enumerates and describes the radio-
 electric system used in hydrography.

FAO:hr

M

<p>Lunz, G.R. (1957) 571039 <u>Contr.Boars Bluff Lab.</u>, (25):10 p.</p> <p>Notes on rock shrimp <u>Sicyonia brevirostris</u> (Stimpson) from exploratory trawling off the South Carolina coast</p> <p>Methods, taxonomy, weight and length, diurnal and seasonal availability, variations, spawning season.</p> <p>FAO:sjh M</p>	<p>MacLeod, R.A. and E. Onofrey (1957) 571042 <u>Canad.J.Microbiol.</u>, 3:753-9</p> <p>Nutrition and metabolism of marine bacteria. VI. Quantitative requirements for halides, magnesium, calcium, and iron</p> <p>A study of the specificity of some marine bacteria's requirement for halides, magnesium, calcium, and iron and of their quantitative requirements for these ions in the presence and absence of related ions.</p> <p>FAO:tl M</p>
<p>Macan, T.T. (1957) 571040 <u>Hydrobiologia</u>, 9:1-12</p> <p>Notes on <u>Gammarus pulex</u> in the English Lake District</p> <p>Data on breeding season, fecundity, variations in numbers, distribution and predators.</p> <p>FAO:wad F</p>	<p>Macnae, W. (1957) 571043 <u>J.Ecol.</u>, 45:113-31</p> <p>The ecology of the plants and animals in the intertidal regions of the Zwartkops estuary near Port Elizabeth, South Africa. Part I</p> <p>General account under principal headings of topography and description of estuary, physical and chemical features (climate, salinity, temperature, substratum, turbidity, pollution), zonation of plants (incl. note on drifted algae).</p> <p>FAO:sjh MF</p>
<p>Macan, T.T. (1957) 571041 <u>Trans.Soc.Brit.Ent.</u>, 12(5):129-56</p> <p>The life histories and migrations of the Ephemeroptera in a stony stream</p> <p>Monthly collections were made over a period of three years from a stream in the Lake District, and the life histories of seven species studied. Of these, only <u>Ephemerella ignita</u> is a true summer species passing the rest of the year as dormant eggs; the remainder grow in autumn and spring. Variations in life histories from place to place are ultimately due to high summer temperatures and possibly oxygen deficiency.</p> <p>:jae F</p>	<p>Macnae, W. (1957) 571044 <u>J.Ecol.</u>, 45:361-87</p> <p>The ecology of plants and animals in the intertidal regions of the Zwartkops estuary, near Port Elizabeth, South Africa. Part II</p> <p>Continuation of 571043, under main headings: intertidal animal communities; nutritional relationships; biotic factors influencing distribution; commensalism; zonation on mud flats and sand banks.</p> <p>FAO:sjh MF</p>

Madsen, F.J. (1957) 571045
Bull.Inst.franç.Afr.noire, A.Sci.nat.,
19:474-81

On a new species of Meoma, and on a few
other echinoids from tropical West
Africa

Description of new sp. with remarks on
Brissopsis lyrifera, Plagiobrissus
costae, Cidaris cidaris nuda and
Echinus acutus mediterraneus.

FAO:efa

M

Main, A.R. (1957) 571046
Aust.J.Zool., 5(1):30-55

Studies in Australian amphibia. I. The
genus Crinia Tschudi in South-Western
Australia and some species from South-
Eastern Australia

The western Australian representatives
of the genus Crinia Tschudi are reviewed.
Life history data are presented.

GLK:hr

F

Maine, Department of Sea and 571047
Shore Fisheries (1957)
Augusta, 43 p.
Commercial fisheries of Maine

M

Mairs, E.H. (1957) 571048
Sea Frontiers, 3:149-61
Is the centerboard up?

Historical study of the centerboard,
the apparent disappearance of center-
board boats and their recent
reappearance.

FAO:glk

M

Maksunov, V.A. (1957) 571049
Zool.Zh., 36(2):238-44
Certain data on morphology and biology
of Capoetobrama kuschakewitschi (Kessler)
of the river Syr-Darya

Notes on life history of the species.

FAO:tl

F

Malacea, I. et al. (1957) 571050
Bul.Inst.Cerc.piscic.Roman., 16(2):29-35
Cercetariipreliminare asupra degradarii
apelor piscicole prin scurgeri reziduale
de la topitoriile de in si cinapa
(Preliminary studies on the degradation of
fishing waters by residual flow from
linen and hemp pits). Fr Ru

A study of the residual waters composition
and their effect on the receiving rivers
with recommendations for their purification.

FAO:hr

F

<p>Malmberg, G. (1957) 571051 <u>Skr.sverig.FiskFören, Årsskrift 1956,</u> 19-76 Om förekomsten av <u>Gyrodactylus</u> på svenska fiskar (On the occurrence of <u>Gyrodactylus</u> on Swedish fishes). En Anatomy of the species, ecology, influence on the fish and description of species of <u>Gyrodactylus</u> occurring in Sweden.</p> <p>TL:tl F</p>	<p>Mandelbaum, H. (1957) 571054 <u>Trans.Amer.geophys.Un., 38:867-78</u> Wind influence on a rotary tidal current Results of investigations on the influence of prevailing wind direction on the rotation of tidal and residual current at Amrum Bank in the German Bight.</p> <p>TL:tl M</p>
<p>Mancuso, V. (1957) 571052 <u>Ric.sci., 27(10):3049-51</u> La citocromo-ossidasi nell'uovo in sviluppo di <u>Sphaerechinus granularis</u> (Cytochrome-oxidase in the developing egg of <u>Sphaerechinus granularis</u>) Cytochrome-oxidase distribution during the larval development of <u>Sphaerechinus</u> was followed by Nadi reaction.</p> <p>FAO:glk M</p>	<p>Manning, J.A. (1957) 571055 <u>Quart.Rep.Fish.Res.Mar.Lab.Miami Univ., 57-4:12 p.</u> Summary of investigations on the pelagic fish survey of Chilean waters with special reference to the swordfish, marlins and tunas. A preliminary study of the migration, food, reproductive behaviour, and habitat preference of swordfish (<u>Xiphias gladius</u>) and marlins (<u>Makaira</u> sp.).</p> <p>FAO:sjh M</p>
<p>Mandelbaum, H. (1957) 571053 <u>Trans.Amer.geophys.Un., 38(4):584-5</u> Discussion of "Evidence for a critical wind velocity for air-sea boundary processes" and "Change in the relationship between wind and surface water movement at higher wind speeds" Discussion of the original articles by Mandelbaum, H. (1956), <u>Trans.Amer.geophys Un., 37(6):685-90</u>, and by Lawford, A.L. et al. (1956), <u>Trans.Amer.geophys.Un., 37(6):691-3</u>. The results obtained with different methods for the relationship between wind velocity and surface water movement.</p> <p>GLK:tl M</p>	<p>Manning, J.H. (1957) 571056 <u>Resour.Stud.Rep.Md, 11:1-25</u> The Maryland soft-shell clam industry and its effects on tidewater resources A report including basic information concerning the soft-shell clam (<u>Mya arenaria</u>), the industry it supports, the gear used in its exploitation, and the effects of that gear on tidewater resources.</p> <p>FAO:sjh M</p>

Manwell, C. (1957) 571057
Science, 126(3284):1175-6
Alkaline denaturation of hemoglobin of
postlarval and adult Scorpaenichthys
marmoratus

Results of investigation undertaken to
find out whether an ontogenetic change
in the hemoglobin is associated with
the metamorphosis.

FAO:hr

M

Marcus, E. and E. Marcus (1957) 571060
Résult.sci.Explor.hydrobiol.Kivu, Eduard
and Albert, 3(2):27-52
Tubellaria. En

F

Marchand, J.M. (1957) 571058
Rep.Div.Fish.S.Afr., 1955-56, 159 p.
Twenty-seventh annual report for the
period 1st April, 1955 to 31st March,
1956

Reports industrial activities of the
Division with regard to inshore
(pilchard/maasbanker, rock lobster and
other) and deep-sea (trawling, whaling)
fisheries; administration of harbours,
legislation, aquarium, staff; research
especially on pilchard and maasbanker;
station lists of research vessels with
tabulated hydrographical and biological
data, with illustrative charts.

GLK:sjh

M

Margalef, R. (1957) 571061
Invest.pesq., 8:89-95
Fitoplancton de las costas de Blanes
(Gerona) de agosto de 1952 a junio de
1956 (Phytoplankton off the coast
of Blanes (Gerona) from August 1952 to
June 1956)

Tabulation of the species taken and
discussion of the composition of the
plankton and the annual sequence of
populations.

FAO:glk

M

Marcotte, A. (1957) 571059
Actualités mar., 1(2):6-12
Un peu de lumière sur le saumon de
l'Atlantique (On the Atlantic
salmon)

Discussion of some commercial catch
statistics and of some biological
information.

FAO:glk

MF

Margalef, R. (1957) 571062
Invest.pesq., 6:39-52
Fitoplancton de las costas de Puerto
Rico (Phytoplankton of Puerto Rico
coasts)

Systematic list.

FAO:glk

M

<p>Margalef, R. (1957) 571063 <u>Invest.pesq.</u>, 7:117-25 Un modelo para el estudio de la distribución de organismos de gran dispersabilidad y área de reproducción muy localizada (A model for studying the distribution of organisms having wide dispersion but more localized area of reproduction)</p> <p>Simplified diffusion theory modified from that of Wolfenbarger's, D.O. (1946) giving, with constant instantaneous mortality rate, log-linear density-distance relation.</p> <p>FAO:sjh MF</p>	<p>Maritz, J.S. (1957) 571066 <u>Biometrics</u>, 13:433-41 A model for the deterioration in strength of materials due to fungal attack</p> <p>Derivation and properties of mathematical model, applicable to fouling, corrosion and gear preservation problems.</p> <p>SJH:sjh MF</p>
<p>Margalef, R. (1957) 571064 <u>Invest.pesq.</u>, 7:105-16 Nuevos aspectos del problema de la suspensión en los organismos planctónicos (New aspects of the suspension of planktonic organisms problem)</p> <p>Discussion of the nature and effect of the factors in Ostwald's formula:</p> $\text{sinking velocity} = \frac{\text{excess of weight}}{\text{viscosity of water} \times \text{form resistance}}$ <p>with particular reference to the role of electrical forces.</p> <p>FAO:glk MF</p>	<p>Marks, W. (1957) 571067 <u>Paper presented at the Thirty-Eighth Annual Meeting, Washington, D.C., April 29 - May 2, 1957</u> The directional spectrum of a wind-generated sea, Part I. Method of observation and data reduction</p> <p>M</p>
<p>Margalef, R., F. Muñoz and J. Herrera (1957) 571065 <u>Invest.pesq.</u>, 7:3-31 Fitoplancton de las costas de Castellón de enero de 1955 a junio de 1956 (The Castellon coast marine phytoplankton from January 1955 to June 1956)</p> <p>Composition of the plankton, with systematic notes. Quantity of phytoplankton determined by colorimetric measurement of soluble pigments. Discussion of production in relation to ecological factors. The annual cycle and secondary spring maximum.</p> <p>FAO:glk M</p>	<p>Maroc. Service Central des Statistiques 571068 (1957) Rabat, 36 p. Bulletin mensuel de statistique No. 1 (Monthly statistics bulletin No. 1)</p> <p>Includes statistics of sea-fish landings by zones and months for May-Dec. 1956, and Feb.-April 1957.</p> <p>FAO:sjh M</p>

Maroc. Service Central
des Statistiques 571069
(1957)
Rabat, 36 p.
Bulletin mensuel de statistique No. 2
(Monthly statistics bulletin No. 2)

Includes table of monthly fish landings,
by areas, for August 1956-September 1957.

FAO:sjh

M

Maroney, S.P., Jr., A.A. Barber 571070
and K.M. Wilbur (1957)
Biol.Bull., Wood's Hole, 112(1):92-6
Studies on shell formation. VI. The
effect of dinitrophenol on mantle
respiration and shell deposition

Determination of respiration by Warburg
method. Discussion of the mechanism of
the action of DNP on shell deposition.

FAC:glk

MF

Marriott, J. (1957) 571071
Sanitarian, Lond., 66:137-47
River and sea pollution - a public health
challenge

MF

Marron, E.M. (1957) 571072
New York, Random House, 214 p.
Albacora; the search for the giant
broadbill

M

Marshall, S.M. and A.P. Orr (1957) 571073
J.gen.Microbiol.(Symp.on plankton),
16:273

Some factors affecting the sinking rate
of diatoms

Notes on experiments on the settling
velocity of Calanus eggs in sea water
containing different algal cultures.

FiB:tl

M

Marshall, T.C. (1957) 571074
Ichthyol.Notes, 1:117-37
Ichthyological notes

A list of species of which 14 are new
to Australia, 12 are new to Queensland
and seven are of special interest.

FAO:glk

M

<p>Marteil, L. (1957) 571075 <u>Rev.Trav.Inst.Pêches marit.</u>, 21:377-400 <u>L'huitre portugaise en Bretagne</u> (The Portuguese oyster in Brittany)</p> <p>Account of attempts at culture; reproduction considered in relation to environmental conditions and the availability of food; discussion of the origin of sets that have been observed in the Morhiban Basin.</p> <p>FAO:glk M</p>	<p>Martin, J. and 571078 M. Lefèvre (1957) <u>Bull.franç.Piscic.</u>, 29:147-50 Destruction des algues envahissantes dans les étangs (Destruction of overgrown algae in ponds)</p> <p>Results of experiments to destroy <u>Spirogira</u> with copper sulphate.</p> <p>FAO:hr F</p>
<p>Marti, J.J. (1957) 571076 <u>Fish Ind., Moscow</u>, (11):87-8 (The tunny fishery in Norwegian waters). <u>Ru</u></p> <p>FAO M</p>	<p>Martinell, H. (1957) 571079 <u>Svensk FiskTidskr.</u>, 66:73-5 Märkningar av 81 i Mörrumsån 8r 1955 (Tagging eels in the river Mörrum in 1955)</p> <p>Data on recapture and migration of transplanted eels.</p> <p>FAO:tl F</p>
<p>Martin, A.V.J. (1957) 571077 <u>Bull.Com.cent.Océanogr.</u>, 9(9):483-90 Essai d'interprétation physique de la couche diffusante profonde (D.S.L.) (Attempts at physical interpretation of the deep scattering layer)</p> <p>A report of echo-sound observations on the D.S.L. with discussion of the effect of conditions near the surface and comparison of field observations with experimental results.</p> <p>FAO:glk M</p>	<p>Marumo, R. (1957) 571080 <u>Bull.Jap.Soc.sci.Fish.</u>, 23(4):187-90 On the distribution of plankton settling volumes in the neighbouring seas of Japan - I.</p> <p>Analysis and comparisons of samples obtained in 1954 in various areas of the western North Pacific.</p> <p>SJH:sjh M</p>

Marumo, R. (1957) 571081
Bull.Jap.Soc.sci.Fish., 23(4):191-4
 On the distribution of plankton
 settling volumes in the neighbouring
 seas of Japan - II.

Analysis and comparisons of samples
 obtained in 1955 in various parts of
 the Western North Pacific.

SJH:sjh

M

Marvin, K.T. (1957) 571082
Limnol.Oceanogr., 2:371-4
 A device for rapid conversion of
 titration values to salinity

Construction of graphs for converting
 titration units into salinity units
 without the use of Knudsen tables.

HR:tl

M

Maryland. Board of Natural 571083
 Resources (1957)
Educ.Ser.Md Bd nat.Resour., (41):31 p.
 Chesapeake biological laboratory

Ill. description of this State of
 Maryland marine laboratory, and of its
 staff and activities.

FAO:sjh

MF

Marzolf, R.C. (1957) 571084
J.Wildlife Mgmt, 21(1):22-8
 The reproduction of channel catfish in
 Missouri ponds

Reports the results of a project to
 determine the conditions necessary for
 effective natural reproduction of
 channel catfish in ponds, and to devise
 methods to encourage this. Hatching
 success and survival are reported.

FAO:glk

F

Massmann, W.H. (1957) 571085
Copeia, (2):156-7
 New and recent records for fishes in
 Chesapeake Bay

A record of catches of the following
 species: Carcharias taurus, Cetorhinus
maximus, Galeocerdo cuvier, Gymnura
altavela, Aetobatus narinari, Albula
vulpes, Microgadus tomcod, Hoplostethus
mediterraneus, Seriola zonata, S.
falcata, S. fasciata, Coryphaena hippu-
rus, Euthynnus alletteratus, Microgobius
thalassinus, Evorthodus lyricus, Gobio-
nellus boleosoma, Prionatus s. scitulus,
P.t. tribulus, Hippoglossus hippoglossus,
Remora australis.

HR:hr

M

Matsakis, J. (1957) 571086
C.R.Acad.Sci., Paris, 244:1082-4
 Etude par l'analyse factorielle des
 dimensions du corps des mâles, des
 femelles et des indifférenciés d'une
 population d'Idotea viridis, isopode
 valvifère (Factorial analysis of
 body size of males, females and
 undifferentiated individuals of a
 population of Idotea viridis)

Content as per title.

FAO:efa

M

Matthews, D.C. (1957) 571087
Pacif.Sci., 11(4):380-4
Further evidences of anomuran non-
pedunculate spermatophores

Compares the development of Aniculus
maximus spermatophores with that of
certain other Paguridae, records still
other instances in which anomuran non-
pedunculate spermatophores are produced.

FAO:glk

M

McAllister, R.F. (1957) 571090
Trans.Amer.geophys.Un., 38(3)314-9
Photography of submerged vertical
structures

A device is illustrated and described
with which photographs of the vertical
walls of the La Jolla Submarine Canyon
were obtained to a depth of 625 ft.
A number of the photographs are
reproduced and briefly described.

GLK:tl

M

Matthews, L.H. (1957) 571088
Nature, Lond., 180:68
Dr. J.E. Hamilton, I.S.O.

Obituary. Dr. Hamilton's work was
particularly concerned with marine
mammals and birds in the Falkland
Islands.

GLK:sjh

M

McCarragher, D.B. (1957) 571091
Progr.Fish Cult., 19:185-7
The natural propagation of northern pike
in small drainable ponds

Describes the fingerling production
attained by stocking ripe Esox lucius.

WAD:wad

F

Mauny, R. (1957) 571089
Notes afr., 75:73-8
Buttes artificielles de coquillages de
Joal-Fadioute (Artificial mounds of
shells at Joal-Fadioute)

A study of the different species of
shells found in mounds.

FAO:hr

M

McClane, A.J. (1957) 571092
Field and Stream, 62(4):42-54
Venezuela: sportsman's new frontier

MF

McConnell, W.J. et al. 571093
Utah St.Dop.Fish Game, Idaho Dep.Fish
Game, Wildl.Mgmt Dep.Utah St.agric.
Coll., 76 p.
 Bear lake; its fish and fishing

Reports investigations on the life history, creel census results, history of planting, methods of catching of cutthroat. Incl. notes on exploitation phase of the present population.

:efa

F

McLellan, H.J. (1957) 571096
J.Fish.Res.Bd Canada, 14(2):213-39
 On the distinctness and origin of the slope water off the Scotian Shelf and its easterly flow south of the Grand Banks

In the slope water investigations a large little-known oceanic area has been studied in fair detail. A secondary current in the Gulf Stream system is described.

GLK:tl

M

McCracken, F.D. (1957) 571094
Progr.Rep.Atl.Cst Sta., (67):6-13
 Results of cod tagging off eastern Nova Scotia

No. tagged in 1954; % returns; comparison of different types of tags; fish movement and growth.

FAO:sjh

M

McMichael, D.F. and 571097
 G.P. Whitley (1957)
Aust.Zool., 12:211-50
 The published writings of Tom Iredale with an index of his new scientific names

A list of one hundred and seventy-five titles of scientific papers on molluscs, birds and other organisms and an index to the new generic, subgeneric, specific and subspecific names proposed in them.

FAO:hr

MF

McHugh, J.L. (1957) 571095
Proc.Nat.Shellf.Ass., 46(1955):155-68
 Trapping oyster drills in Virginia. II. The time factor in relation to the catch per trap

Reports on results of experiments to determine the optimum trapping interval.

:hr

MF

McNulty, J.K. (1957) 571098
Mar.Lab.Univ.Miami (mimeo), (57-8):1-25
 Progress report February 1957 - Pollution studies in Biscayne Bay during 1956 - Federal Security Agency Public Health Service National Institutes of Health - Under Grant RG-4062(C3)

Studies of the sediment of the bay.

FAO:tl

M

<p>Mehler, A.H. (1957) 571099 <u>Academic Press Inc., New York</u>, 425 p. <u>Introduction to enzymology</u></p> <p>MF</p>	<p>Menon, M. Krishna (1957) 571102 <u>Indian J.Fish.</u>, 4(1):62-74 <u>Contributions to the biology of penaeid prawns of the south-west coast of India</u></p> <p>For <u>Metapenaeus dobsoni</u> and <u>Parapenaeopsis stylifera</u> the ratios are calculated for each year class while for <u>Penaeus indicus</u> and <u>Metapenaeus affinis</u> they are calculated for arbitrary size ranges; disparity in the ratios in the age groups of the first two spp. are discussed in relation to migrations.</p> <p>GLK:glk M</p>
<p>Méndez Domingo, C. (1957) 571100 <u>Vie et Milieu</u>, 8(1):92-8 <u>Sur l'existence du Colpomenia peregrina</u> (Sauv.) Hamel dans la Méditerranée <u>(The existence of Colpomenia peregrina</u> (Sauv.) Hamel in the Mediterranean)</p> <p>Distribution of the species which is compared with <u>C. sinuosa</u>.</p> <p>FAO:hr M</p>	<p>Menzel, H.M. (1957) 571103 <u>Dtsch.FischZtg.</u>, (2):43-4 <u>Zu den Gesundheitskontrollen an Satzfishen</u> (Sanitary controls of brood fishes)</p> <p>Notes on control measures in German Democratic Republic.</p> <p>FAO:efa MF</p>
<p>Menezes, R.S. (1957) 571101 <u>Agric.Pec.</u>, 400:50 <u>Atum - nova riqueza dos mares brasileiros</u> (Tuna - new wealth of the Brazilian seas)</p> <p>Information and comments on the tuna fisheries studies carried out by the Japanese research vessel TOKO MARU, 1955-56, in Brazilian waters. Use and food value of the Brazilian tuna. Efforts of the Division of Fish and Game to develop the fisheries in Brazil.</p> <p>FAO:hr M</p>	<p>Menzies, R.J. (1957) 571104 <u>Bull.Mar.Sci.Gulf Caribb.</u>, 7(2):101-200 <u>The marine borer family Limnoriidae</u> (Crustacea, Isopoda). Part I: Northern and Central America: systematics, distribution and ecology</p> <p>Systematic review with notes on geographic distribution and ecology.</p> <p>FAO:glk M</p>

<p>Menzies, W.J.M. and W.M. Shearer (1957) <u>Nature, Lond.</u>, 179:790 Long-distance migration of salmon</p> <p>Salmon marked in Scotland recovered in Greenland.</p>	571105	<p>Meuwus, A.L. and M.J. Heuts (1957) <u>Biol.Bull., Wood's Hole</u>, 112(1):97-107 Temperature dependence of breathing rate in carp</p> <p>An examination of the influence of age and size on the frequencies of respiratory movements as first contribution to evolving an easy method of detecting genetically based physiological variants.</p>	571108
FAO:jae	MF	FAO:glk	F
<p>Merkel, T.J. (1957) <u>Calif.Fish Game</u>, 43:249-70 Food habits of the king salmon, <u>Oncorhynchus tshawytscha</u> (Walbaum), in the vicinity of San Francisco, California</p> <p>Qualitative and quantitative analysis of stomach contents of 1004 troll-caught fish, Oct. 1954 - Oct. 1955; food as related to season, fish-size and sexual condition. Significance of rockfishes, euphausiids, Pacific herring, squid and the crab <u>Megalops</u> in the diet.</p>	571106	<p>Midttun, L. and J. Natvig (1957) <u>Sci.Res."Bratog" Exped.</u>, (3) Pacific Antarctic waters</p>	571109
SJH:sjh	M		M
<p>Messick, S. (1957) <u>Science</u>, 126:266 Non-parametric statistics for the behavioral sciences</p> <p>Review of book with same title by Siegel, S. (1956).</p>	571107	<p>Migdalski, E.C. (1957) <u>Copeia</u>, (1):54-6 Contribution to the life history of the South American fish <u>Arapaima gigas</u></p> <p>A note on distribution, fisheries, biology, and bionomics of <u>Arapaima gigas</u>.</p>	571110
FAO:	MF	HR:hr	F

Migita, M. and 571111

K. Kanna (1957)

Bull.Jap.Soc.sci.Fish., 23(4):215-21
On the source of shell-fish poison at
the lake Hamana, I. Attempts at
experimentally rendering shell-fish
toxic

Field and tank experiments on uptake
of toxic substances, including
venerupin, by oysters and short-neck
clams.

SJH:sjh

MF

Miller, A.R. (1957) 571114

Paper presented at the Thirty-Eighth
Annual Meeting, Washington, D.C.,
April 29 - May 2, 1957

Report on the effect of winds on
coastal water levels of New England

M

Millbank, J.W. (1957) 571112

Ann.Bot., Lond., 21:23-31
Keto-acids in the alga Chlorella

Account of investigations on the
intracellular concentration of pyruvic
and α -ketoglutaric acids in sp. grown
under various conditions and discussions
of possible interpretation of these
facts.

FAO:efa

F

Miller, I.A. (1957) 571115

Int.hydr.Rev., 34(2):19-29
Le Decca à mesure de deux distances
installé sur le navire hydrographe
KAPUSKASING (Canada) - Saison 1956
(Decca for measurement of two
distances installed on the hydrographic
vessel KAPUSKASING (Canada) - 1956
season)

Account of the equipment and of
measures to test its performance,
technique of construction of graph,
recommendations for improvement of
the equipment.

FAO:glk

M

Millbank, J.W. (1957) 571113

J.exp.Bot., 8:96-104
Preparation of a respiratory cell-free
extract of the alga Chlorella

F

Miller, R.R. (1957) 571116

System.Zool., 6(1):29-40
Utilization of X-rays as a tool in
systematic zoology

Discusses briefly different types of
radiation, pointing out the value and
limitations of the techniques, and
presents data from experiments with
different types of X-ray machines.

HR:hr

MF

Millot, N. and 571117
M. Yoshida (1957)
Nature Lond., 179(4566):924
Spectral sensitivity of an echinoid

Investigations of spectral sensitivity
and minimal light-energy required to
elicit spino movement. (The
sensitivity, was found maximal in blue
light - at 465 m μ)

GLK:tl

M

Mills, D. (1957) 571118
Sea Frontiers, 3:109-12
Unexploited waters

Brief account of exploration off Sierra
Leone.

HR:sjh

M

Milne, D.J. (1957) 571119
Bull.Fish.Res.Bd Can., (113):56 p.
Recent British Columbia spring and coho
salmon tagging experiments, and a
comparison with those conducted from
1925 to 1930

Analysis of results from taggings of
many thousands of fish from 1949-52 and
1925-30, showing migrations and origins,
% recaptures in relation to fishing
industry. Proposals for conservation
measures.

GLK:sjh

MF

Mil'shtein, V. (1957) 571120
Sci.and Life, Moscow, 24:54
Breeding of sturgeon

Mimura, K. (1957) 571121
Rep.Nankai reg.Fish.Res.Lab., 6:77-83
(Length frequency of big-eye tuna,
caught from the Indo-Australian
Archipelago area). Ni En

Monthly catches in different parts of
the area, and significance of
dispersion and number of modes in the
frequency distribution, in relation to
ecological area differences.

FAO:sjh

M

Mimura, K. (1957) 571122
Rep.Nankai reg.Fish.Res.Lab., 5:138-44
(Studies on the albacore. IV. Fishing
condition in the Indian Ocean,
especially the size composition in the
eastern seas of the Ocean). Ni En

Hook-rates and size-compositions of
landed catches east of 80°E, 1952-1955,
analysed for regional differences and
relation to currents.

FAO:sjh

M

Minnesota University. Center 571123
for Continuation Study (1957)
Minneapolis, 1 vol.
Managing our fish and wildlife resources

MF

Mišik, V. (1957) 571126
Biología, 4:177-90
Biometrika plotice leskloj dunajske
Rutilus pigus (Lacépède 1804) virgo
(Heckel 1852) (Biometrics of the
R. pigus in the Danube)

F

Mirashi, M.V. (1957) 571124
Proc. Indian Acad. Sci., Sec. B, 45:95-100,
181-5
Contribution to our knowledge of the
physiological anatomy of some Indian
Hydrophytes. 5. Stem of Lindernia allioni.
6. Stem of Lobelia alsinoides Lam

M

Miskin, E.A. and 571127
P.H. Kemp (1957)
Dock Harb. Author., 37:335-7
Wave measurements by stereo-photogram-
metric methods

M

Mironova, N.V. (1957) 571125
Vop. Ikhtiol., 8:155-9
K voprosu o biologii i promysle saidy
(Pollachius virens L.) v Barentsevom
more (Questions concerning the
biology and industry for the said
(Pollachius virens L.) in the Barents
Sea)
Seasonal distribution maps.

FAO:glk

LI

Mistakidis, M.N. (1957) 571128
Fish. Invest., Lond., Ser. 2, 21(4):52 p.
The biology of Pandalus montagui Leach
A detailed account, under the following
headings: introduction and review of
literature; description of fishery in
the Thames Estuary; breeding; sex
change; growth; food; migrations;
parasites.

FAO:sjh

IMF

<p>Mita, N. (1957) 571129 <u>Rep.Nankai reg.Fish.Res.Lab.</u>, 5:19-37 (On the estimation of carangoid fishes). <u>Ni</u> <u>En</u></p> <p>Estimates from scale readings and by Peterson's method of Bertalanffy growth coefficients for 9 spp. of <u>Seriola</u>, <u>Trachurus</u>, <u>Caranx</u> and <u>Decapterus</u>. Gives some age compositions.</p> <p>FAO:sjh M</p>	<p>Moiseev, P.A. (1957) 571132 <u>C.R.Acad.Sci.U.R.S.S.</u>, 112:63 Образование зрелой формы симы <u>Oncorhynchus masu morpha formosanus</u> (Jordan et Oshima) в бассейне реки Седанки (The formation of the living form of <u>Oncorhynchus masu morpha formosanus</u> (Jordan et Oshima) in the basin of the Sedanka river)</p> <p>FAO F</p>
<p>Mitani, F. (1957) 571130 <u>Bull.Jap.Soc.sci.Fish.</u>, 22:605-8 (Correlation between catches of fishing grounds and secular variation in the catch of the yellow-tail, <u>Seriola quinqueradiata</u>, along the Pacific coast of Japan). <u>Ni</u> <u>En</u></p> <p>Analysis of catch data from 1915 to 1954; distinguishes three areas according to kind of variation; correlation between catches in different prefectures; relation of variations to hydrographic and meteorological factors.</p> <p>SJH:sjh M</p>	<p>Molander, A.R. and 571133 M. Molander Swedmark (1957) <u>Rep.Inst.mar.Res.Lysekil(Ser.Biol.)</u>, (7):44 p. Experimental investigations on variation in plaice (<u>Pleuronectes platessa</u> Linné)</p> <p>Examination of the role of temperature as determinant of (1) the variation in the number of vertebrae and fin rays (2) abnormalities in the vertebral column, (3) growth, (4) mortality, and comparison of these results with the features presented by natural populations.</p> <p>FAO:glk M</p>
<p>Miyaguchi, K. and 571131 T. Ishida (1957) <u>Bull.Hokkaido reg.Fish.Res.Lab.</u>, (16): 49-55 (On the observation of scale pattern of pink salmon). <u>Ni</u> <u>En</u></p> <p>Counts of circuli in resting zones of scales of <u>Oncorhynchus keta</u> Walbaum in Japan and Okhotsk Seas and N.W. Pacific permit differentiation of stocks.</p> <p>FAO:sjh IMF</p>	<p>Molinier, R. and 571134 J. Picard (1957) <u>Bull.sta.Aquic.Pêche Castiglione</u>, (8):251-68 Aperçu bionomique sur les peuplements marins littoraux des côtes rocheuses méditerranéennes de l'Espagne (Bionomic survey of the coastal stocks of the rocky Mediterranean coasts of Spain)</p> <p>A study of the distribution of organisms on different types of coast.</p> <p>FAO:hr M</p>

Monroy, A. (1957)	571135	Moore, G.H. and	571138
<u>Experientia</u> , 13:398		A.D.K. Laird (1957)	
Swelling properties of the mitochondria of unfertilized and newly fertilized sea urchin eggs		<u>Trans.Amer.geophys.Un.</u> , 38(5):681-7	
		Direct shear stresses and air velocity profiles on a mechanical wave boundary	

Investigation of changes in the physiological, and hence structural, conditions of the mitochondrial membrane accompanying changes in some mitochondrial enzymes taking place in conjunction with fertilization.		Shear stresses of air on a rubber-sheet mechanical model of standing waves, stationary waves, and flat surface were measured directly and calculated from velocity profiles.	
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FAO:glk	M	FAO:tl	M
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Montreuil, P.L.J.	571136	Morita, R.Y. and	571139
and K. Ronald (1957)		R.A. Howe (1957)	
<u>Canad.J.Res.(Zool.)</u> , 35(3):495		<u>Deep-Sea Res.</u> , 4(4):254-8	
A preliminary note on the nematode parasites of seals in the gulf of the St. Lawrence		Phosphatase activity by marine bacteria under hydrostatic pressure	
Three species of gray seals, <u>Halichoerus grypus</u> , <u>Phoca groenlandica</u> and <u>P. vitulina</u> are noted as carrying nematodes in their intestines.		p-nitrophenyl phosphate was employed to determine phosphatase activity of marine bacteria under hydrostatic pressure. A wide variation in phosphatase activity was shown to occur.	

FAO:hr	M	GLK:tl	M
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Moore, G.A. (1957)	571137	Morrison, J.F., D.E. Griffiths	571140
In "Vertebrates of the United States" by W.F. Blair et al. <u>McGraw-Hill Book Company, Inc.</u> , pp. 31-210		and A.H. Ennor (1957)	
2. Fishes		<u>Biochem.J.</u> , 65:143-53	
		Purification and properties of arginine phosphokinase	

FAO	F	FAO	M
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Morton, J.E. (1957) 571141
Nature, Lond., 180(4577):130-1
Mosaic evolution in hydroids

Brief review of systematic arrangement
of Hydroida with notes on Rees's
classification.

GLK:efa

MF

Mowbray, L.S. (1957) 571144
Paper presented at the Inter-Island
Marine Biological Conference, March
31 - April 6, 1957

Some notes on the known routes of
migration of the bluefin tuna Thunnus
thynnus

Paths and times of migrations and
relations with current strength, feeding
and spawning.

Abstract in "Report by the Institute of
Marine Biology, University of Puerto
Rico".

HR:glk

M

Moski, H.C. (1957) 571142
Copeia, (1):50-1
Algal occurrence on the turtle
Clemmys guttata

Reports records and states that sp. can
now be added to the list of N. American
fresh-water turtles epizoized in the
natural state.

HR:efa

F

Mraz, D. and E.L. Cooper (1957) 571145
J.Wildlife Mgmt, 21(1):66-9
Natural reproduction and survival of
carp in small ponds

These experiments were designed to test
the idea that population density of
adult carp is an important factor in the
success of natural reproduction of this
species.

FAO:glk

F

Motais, R. (1957) 571143
Bull.Inst.oceanogr.Monaco, (1094):1-4
Sur l'absorption de la lumière par le
cristalline de quelques poissons de
grande profondeur (On the absorption
of light by the crystalline of some
fishes at great depths)

Gives the results of the experiments
conducted with 3 species of sclachii,
4 teleostei and one apode.

FAO:hr

M

Mraz, D. and E.L. Cooper (1957) 571146
J.Wildlife Mgmt, 21:127-33
Reproduction of carp, largemouth bass,
bluegills, and black crappies in small
rearing ponds

Experiments with Cyprinus carpio,
Micropterus salmoides, Lepomis macro-
chirus and Pomoxis nigromaculatus using
mixed populations of adult fish at known
densities to determine success of natural
reproduction and early survival.

FAO:wad

F

<p>Mucibabic, S. (1957) 571147 <u>J.gen.Microbiol.</u> Some aspects of the growth of single and mixed populations of Flagellates and Ciliates</p> <p style="text-align: right;">MF</p>	<p>Munk, W.H. and 571150 F.E. Snodgrass (1957) <u>Paper presented at the Thirty-Eighth Annual Meeting, Washington, D.C., April 29 - May 2, 1957</u> Some recent results in the study of ocean waves in the band of 1 to 100 cycles per kilosecond</p> <p style="text-align: right;">M</p>
<p>Munk, W.H. and 571148 F.E. Snodgrass (1957) <u>Deep-Sea Res.</u>, 4(4):272-86 Measurements of southern swell at Guadalupe Island</p> <p>Some energy spectra of pressure fluctuations on the sea bottom at a depth of 60 fathoms off Guadalupe Island, Mexico are analysed. The pressure fluctuations caused by swell are attributed to cyclones in the storm belt of the Southern hemisphere.</p> <p>GLK:tl M</p>	<p>Munro, H. Fox (1957) 571151 <u>Nature, Lond.</u>, 179:148 Haemoglobin in the Crustacea</p> <p>A review of its presence throughout the class - both in blood plasma and various tissues.</p> <p>GLK:wad MF</p>
<p>Munk W.H. and 571149 F.E. Snodgrass (1957) <u>Science</u>, 125 (3251):749 Ocean waves of very low frequency</p> <p>Short note on very low frequency waves believed to originate from far distant storms.</p> <p>FAO:tl M</p>	<p>Munro, I.S. (1957) 571152 <u>Ichthyol.Notes</u>, 1:145-8 Occurrence of the big-eyed tuna, <u>Parathunnus mebachi</u> (Kishinouye) in Queensland</p> <p>A record of the first specimen of the species obtained in Australian waters, encompassing the description of the specimen and discussion of the taxonomic position.</p> <p>GLK:hr M</p>

Munro, I.S.R. (1957) 571153
Fish. News Lett. Aust., 16(8):15-8
Handbook of Australian fishes

Section 14, pages 57 to 60 of this taxonomic handbook being published in serial form.

GLK:sjh

M

Munroe, E. (1957) 571156
Science, 126:437-9
Comparison of closely related faunas

Short discussion of general nature of differences between faunas and discusses a method useful for comparison and assessment of differences. Particular reference to rate of differentiation fish in large tropical lakes and temperate rivers.

FAO:glk

F

Munro, I.S.R. (1957) 571154
Mon. Ser. Bull. W. Aust., 6(5):88-90
The Australian species of Scomberomorus lacepede

An illustrated key for the distinction of the species of Scomberomorus of Australia: S. (Cybium) commerson, S. (Cybium) queenslandicus, S. (Sawara) niphonius and S. (Indocybium) semi-fasciatus.

GLK:hr

M

Muraour, P. (1957) 571157
Bull. sta. Aquic. Pêche Castiglione, (8):29-38

Sédiments et sédimentation au large de la région située entre le Cap Tedlès et la Pointe de l'Aït-Raouna (Est de Tighzirt) (Sediments and sedimentation off the region between Cape Tedlès and the Point of l'Aït-Raouna (East of Tighzirt))

Lists the organisms of the samples taken and chemical composition of the same.

FAO:hr

M

Munro, W.R. (1957) 571155
Freshw. Salm. Fish. Res., 16:16 p.
The pike of Loch Choin

Information on the biology of Esox lucius L. (length-weight, relationship, age, growth, maturity and food habits) and standing crop in a Scottish loch devoid of other fishes except Anguilla.

FAO:wad

F

Muromtsev, A.M. (1957) 571158
C.R. Acad. Sci. U.R.S.S., 116:776-9
Tipy godovogo khoda temperatury vody v poverkhnostnom sloe okeana, (Patterns of annual temperature in surface layers of the ocean)

Description and analysis of factors, which influence the temperature of water: radiation balance of the area and vertical advection.

FAO:go

M

Murray, R.W. (1957) 571159
Nature, Lond., 179:106-7
Evidence for a mechanoreceptive function
of the ampullae of Lorenzini

An investigation of the possibility of
mechanical sensitivity in the ampullary
system of Raia clavata using an
electrical recording technique.

GLK:hr

M

Musacchia, X.J., B.J. Sullivan 571162
and C.G. Wilber (1957)
Copeia, (1):10-2
A comparison of liver and muscle lipids
in arctic fishes

Estimations of tissue fatty acids,
cholesterol and phospho-lipid in
Mallotus catervarius, Dallia pectoralis,
Boregadus saida and Myoxocephalus quadri-
cornis freshwater and marine species
from Alaska.

HR:hr

MF

Murty, C.B. (1957) 571160
Curr.Sci., 26(3):80
Water masses of the Western Central Bay
of Bengal during November

Presentation of T.S. diagram and the
nomenclature of water masses.

Mužinić, R. (1957) 571163
Bilješke, Split, (12):4 p.
Sur la croissance de la jeune sardine
(Sardina pilchardus Walb.) dans les
eaux de Split (Growth of the young
sardine (Sardina pilchardus Walb.)
in the waters of Split)

Sardines of first spawnings, during the
first growth phase, are 6 to 15 cm long.
Specimens from late spawnings grow
during the second phase slower than the
specimens of first spawnings.

FAO:tl

MF

GLK:hr

M

Musacchia, X.J. and 571161
M.C. Clark (1957)
Physiol.Zool., 30(1):12-7
Effects of elevated temperatures on
tissue chemistry of the arctic sculpin
Myoxocephalus quadricornis

A study was made of the effect of
elevated temperatures on the total fatty
acids, total cholesterol, cholesterol
esters, and phospholipid of the liver and
skeletal muscle from the sculpin,
Myoxocephalus quadricornis, an arctic
fish.

FAO:sjk

MF

Nafe, J.E. and 571164
C.L. Drake (1957)
Paper presented at the Thirty-Eighth
Annual Meeting, Washington, D.C.,
April 29 - May 2, 1957
A comparison of deep and shallow water
marine sediments

M

Nakamura, N. and 571165
 S. Kasahara (1957)
Bull.Jap.Soc.sci.Fish., 22:674-8
 (A study on the phenomenon of the Tobikoy or shoot carp. III. On the result of culturing the modal group and the growth of carp fry reared individually).
 Ni En

Experiments on selection of Cyprinus carpio for growth characteristics demonstrate effect of food competition on growth variation.

SJH:sjh

F

Naranjo Detancourt, A. (1957) 571168
Banco Nacional de Fomento, División Técnica Tegucigalpa, D.C., Honduras, C.A., 136 p.
 Investigación y estudio de puertos pesqueros de Honduras, costa norte y costa sur (Investigation and study of the fishing ports of the northern and southern coasts of Honduras)

A study of the present fishing activities of Honduras with recommendations for its future development.

FiB:hr

M

Nakano, E. and A. Monroy (1957) 571166
Experientia, 13:416-7
 A method for the incorporation of radioactive isotopes in the sea urchin egg

Description of the method, which avoids long incubation, involving injection of the isotope into the body cavity of the adult female.

FAO:glk

M

Naumov, D.V. (1957) 571169
C.R.Acad.Sci.U.R.S.S., 112:65
Zhiznnyi tsikl gidromeduzy Cladonema pacifica Naumov (The life cycle of the hydromedusa Cladonema pacifica Naumov)

FAO

M

Nakatsu, L.M. (1957) 571167
Comm.Fish.Rev., 19(12):5-8
 A review of the soupfin shark fishery of the Pacific coast

Distribution, biology, landings and utilization of Galeorhinus zyopterus from south California to north British Columbia.

FAO:sjh

M

Navarro Dagnino, J. (1957) 571170
Barcelona, Gill, 151 p.
Vocabulario marítimo inglés-español y español-inglés (Maritime dictionary English-Spanish and Spanish-English)

M

Naylor, E. (1957) 571171
Nature, Lond., 180:616-7
Introduction of a grapsoid crab,
Brachynotus sexdentatus (Risso), into
British waters

Report of observations of the presence of
this crab, the conditions under which
it is living, and discussion of the ways
in which it might have been introduced
from the Mediterranean.

GLK:rlk

M

Naylor, E. (1957) 571172
New Sci., 2(50):21-3
Immigrant marine animals in Great
Britain

Illustrated account of immigration from
America, Australia and Asia of Velutella,
Elminius and Lepas (barnacles), Planes,
Brachynotus and Pachygrapsus (crabs),
Mercierella (tube-worm), Gryphaca (oyster)
and spp. of other genera.

FAO:sjh

M

Needham, A.E. (1957) 571174
Nature, Lond., 180:1293
The quadratic relation in differential
growth

Discussion of application of polynomial
rather than logarithmic equation to
continuously varying allometric growth
in carapace width and abdominal width
of female pea crab, Pinnotheres pisum.

GLK:sjh

M

Neill, W.T. (1957) 571175
Copeia, (1):43-7
Distributional notes on Georgia
amphibians, and some corrections

Content as per title with comments
on herpetogeographic errors and
omissions.

HR:efa

F

Naylor, M. (1957) 571173
Nature, Lond., 180:46
An acetocarmine squash technique for the
fucals

Describes new cytological technique,
applied to Fucus, Cystoseira, Himanthalia
and Halidrys.

GLK:sjh

M

Nemoto, C.M. (1957) 571176
Progr.Fish Cult., 19:147-57
Experiments with methods for air
transport of live fish

Describes experiments, mainly with
Lepomis macrochirus and Tilapia mossam-
bica, to provide adequate oxygen supply
and to control the accumulation of
metabolic wastes during transport by
plane. Specific recommendations are made
involving the use of oxygen in sealed
containers, an adsorptive agent and
sodium amytal.

WAD:wad

F

Nepgen, C.S. de V. (1957) 571177
Invest.Rep.Div.Fish.S.Afr., (28):30 p.
 The South African pilchard (Sardinops
ocellata and the maasbanker (Trachurus
trachurus) - The euphausiids of the
 west coast of South Africa

Discussion of methods used, followed by
 a discussion of the general occurrence,
 seasonal variations and distribution.
 After brief notes on each of the species
 found, the general occurrence of
 euphausiids is correlated with certain
 hydrological factors such as temperature
 and salinity.

FAO:hr

M

Netherlands. Royal 571180
 Meteorological Institute (1957)
Gravenhage, 91 p.
 The Mediterranean oceanographic and
 meteorological data. En Ne

Marine climatological atlas containing
 monthly charts on general currents and
 air circulation, pressure, air and
 sea surface temperature, fog and
 precipitation and current and wind
 roses.

FAO:tl

M

Netherlands. Landbouw- 571178
 Economisch Instituut.
 Afdeling Visserij (1957)
Rapp.Landbouw-Econ.Inst., (270):53 p.
 Diagnose-rapport visserij 1956.
 Voorlopige berekening van de
 bedrijfsresultaten van de visserij
 over 1956 (Diagnostic report on
 fisheries - 1956. Provisional
 calculation on the trading results in
 fisheries for 1956)

MF

Neumann, G. (1957) 571181
Port Engr., 6(2):18-23
 Generation and growth of ocean waves
 under wind action

M

Netherlands. Landbouw- 571179
 Economisch Instituut.
 Afdeling Visserij (1957)
Rapp.Landbouw-Econ.Inst., 257:93 p.
 Onderzoek naar de bedrijfsresultaten
 van de garnalenvisserij in 1954 en 1955
 (Investigation on the commercial results
 of the shrimp fishery in 1954 and 1955)

M

Newcombe, C.L. (1957) 571182
Bull.ecol.Soc.Amer., 38:100
 The potential use of micromictic lakes
 for disposal of radioactive wastes

Abstract of paper presented at the
 meeting of the Ecological Society of
 America, Indianapolis, December 27-29,
 1957.

GLK:glk

F

Newell, A.E. (1957) 571183 <u>Progr.Fish.Cult.</u> , 19(2):76-80 Two-year study of movements of stocked brook trout and rainbow trout in a mountain trout stream		Nicolet, M. (1957) 571186 <u>Nature, Lond.</u> , 180:7-10 The International Geophysical Year Lists oceanographic and other stations, by regions.	
Experiments with <u>Salvelinus fontinalis</u> and <u>Salmo gairdneri</u> in a New Hampshire, USA, stream.			
WAD:wad F	GLK:sjh M		
New Zealand. Marine 571184 Department (1957) <u>Rep.Fish.N.Z.</u> , 1956, 40 p. Report on fisheries for 1956 Statement of weight and value of catch taken, its species composition and origin by port of landing; craft engaged, and methods of capture. Notes on exports and imports, fish-liver oil, and particular fisheries. Account of freshwater fishery activities and of freshwater and marine research. Detailed statistical tables.		Niculescu-Duvaz, M. 571187 and Gh. Barca (1957) <u>Bul.Inst.Cerc.piscic.Roman.</u> , 16(2):21-8 Orientarea problemelor de economie piscicola in scopul ameliorarii agro-piscicole a regiunii inundabile a Dunarii (Orientation of problems of the economy of fisheries in consequence of the amelioration of agriculture and fishculture in the flood plain of the Danube). Ru Fr Discussion, with proposed land-use map.	
FiB:glk MF	FAO:sjh F		
Nicolai, E. (1957) 571185 <u>Nature, Lond.</u> , 180:491-3 <u>Wall deposition in Chaetomorpha mela-gonium</u> (Cladophorales) Gives data obtained about the first wall laid down and the stage of development at which cross-striation pattern makes its appearance.		Nielson, R.S., N. Reimers 571188 and H.D. Kennedy (1957) <u>Calif.Fish.Game</u> , 43(1):5-42 A six-year study of the survival and vitality of hatchery-reared rainbow trout of catchable size in Convict Creek, California Describes controlled year long experiments using hatchery <u>Salmo gairdneri</u> and wild <u>Salmo trutta</u> .	
GLK:efa F	HR:wad F		

Nikolskii, P.D. (1957) 571189
Fish.Ind., Moscow, 33(1):70-1
 Opyt dvukhkratnogo ispol'zovaniia prudov
 za odin vegetatsionnyi period (Test
 concerned with using ponds twice during
 one vegetative period)

FAO

F

Nikonorov, I.V. (1957) 571190
Fish.Ind., Moscow, 33(2):79-81
 Vidoboi i razmernyi sostav ulovov kil'ki
 rybonasosom i konusnoi set'in
 (Species and size composition of
 northern pilchard catch with a fish
 pump and a conic net)

FAO

M

Nishibori, K. (1957) 571191
Bull.Jap.Soc.sci.Fish., 22:708-12
 (Studies on pigments of marine animals.
 III. Echinochrome A from the spines of
 sand-dollar Echinarachnius mirabilis).
 Ni En

Reports a biochemical and spectrographic
 analysis.

SJH:sjh

M

Nishibori, K. (1957) 571192
Bull.Jap.Soc.sci.Fish., 22:713-4
 (Studies on pigments of marine animals.
 IV. Astacene from the liver oil of
 cuttle-fish, Ommastrephes sloani
pacificus Streentrup). Ni En

Reports a biochemical and spectrographic
 analysis.

SJH:sjh

M

Nishibori, K. (1957) 571193
Bull.Jap.Soc.sci.Fish., 22:715-7
 (Studies on pigments of marine animals.
 V. Carotenoids from the red muscle and
 the viscera of giant shield shell,
Tugali gigas). Ni En

Reports a biochemical and spectrographic
 analysis.

SJH:sjh

M

Noble, E.R. (1957) 571194
J.Mar.biol.Ass.U.K., 36(1):143-55
 Seasonal variations in host-parasite
 relations between fish and their
 protozoa

A study of host-parasite relations
 between three species of marine fish and
 their protozoa was made at Plymouth.
Callionymus lyra was more heavily
 infected with protozoa than were the
 other two species of fish. Gadus
merlangus was less heavily parasitized.
G. merlangus, however, was more heavily
 parasitized with worms than were the
 other two fish. In Microstomus kitt the
 intensity of infection was generally low.
 HR:hr M

<p>Hógrádi, T. (1957) 571195 <u>Hydrobiology</u>, 9(4):348-60 Beiträge zur Limnologie und Rädertier- fauna ungarischer Natrongewässer (Contributions to limnology and rotifer fauna of Hungarian "Sodium-waters")</p> <p>Limnological description of the water containing high amounts of sodium carbonate, list of the zooplankton organisms and description of several n. sp. and n.f. of rotifers found in these waters.</p> <p>FAO:tl F</p>	<p>Northcote, T.G. (1957) 57119 <u>Management Publ.Br.Col.Game Comm.</u>, 6:1- Common diseases and parasites of fresh water fishes in British Columbia</p> <p>Includes a key to their identification and also contains an account of miscellaneous abnormalities.</p> <p>WAD:wad F</p>
<p>Nordli, E. (1957) 571196 <u>Nytt Mag.Bot.</u>, 5:13-6 Algal flour extract as a stimulating agent for marine dinoflagellate cultures</p> <p>Account of observations on the influence of benthic algae upon the growth of marine flagellates.</p> <p>FAO:efa M</p>	<p>Nun, M. (1957) 571 <u>Fish.Bull., Haifa</u>, (13):4-10 (The fisheries of the Talmud). <u>Iw</u></p> <p>SJH MF</p>
<p>Norris, K.S. (1957) 571197 <u>Calif.Fish Game</u>, 43:317 Second record of the green sturgeon in southern California</p> <p>Descriptive note on specimens of <u>Acipenser medirostris</u> Ayres speared on 27/4/57 in 18 feet of water, N. of Point Vicente, Los Angeles. TL = 77.4 cm, Wt = 3 lb 14 oz.</p> <p>SJH:sjh M</p>	<p>Nun, M. (1957) 5712 <u>Fish.Bull., Haifa</u>, (11):21-5 (Fishing in the Old Testament). <u>Iw</u></p> <p>Article ill. with Egyptian reliefs, e</p> <p>SJH:sjh MF</p>

<p>Nun, M. (1957) 571201 <u>Fish.Bull., Haifa</u>, (14):20-4 (Seafarers and fishermen in the Jewish-Roman war). <u>Iw</u> Figures of coins and mosaics.</p>	<p>Ochiai, A. (1957) 571204 <u>Bull.Jap.Soc.sci.Fish.</u>, 22(9):522-5 (Zoogeographical studies on the solcoid fishes found in Japan and its neighbouring regions - I) <u>Ni</u> En Quantitative distribution at representative localities is analysed by Schonck and Keen's method.</p>
<p>SJH:sjh MF</p> <p>Nunes-Ruivo, L. (1957) 571202 <u>Rev.Fac.Sci.Lisboa</u>, 5(2):230-52 Contribution à l'étude des variations morphologiques de <u>Clavella adunca</u> (H. Ström). Copepode parasite de <u>Gadus callarias</u> L. Considérations sur quelques <u>Clavella</u> parasites des Gadidae (Contribution to the research on morphologic variations of <u>Clavella adunca</u> (H. Ström). Copepode parasite of <u>Gadus callarias</u> L. Considerations on some <u>Clavella</u> parasites of Gadidae) Taxonomic with account of morphology.</p> <p>GLK:glk M</p>	<p>SJH:tjj M</p> <p>Ochiai, A. (1957) 571205 <u>Bull.Jap.Soc.sci.Fish.</u>, 22(9):526-30 (Zoogeographical studies on the soleoid fishes found in Japan and its neighbouring regions - II). <u>Ni</u> En Redfins popularity and attempts to elucidate distribution pattern of species in five faunal subdivisions of Japanese waters.</p> <p>SJH:tjj M</p>
<p>Nystedt, L. (1957) 571203 <u>Int.hydr.Rev.</u>, 34(2):95:101 Calcul automatique des réseaux hyperboliques (Automatic calculation of hyperbolic grids) Study of the possibility of increasing precision by the use of an electronic calculator when drawing hyperbolic lines, with information on a Swedish machine for this purpose.</p> <p>FAO:glk M</p>	<p>Ochiai, A. (1957) 571206 <u>Bull.Jap.Soc.sci.Fish.</u>, 22(9):531-5 (Zoogeographical studies on the soleoid fishes found in Japan and its neighbouring regions) - III). <u>Ni</u> En Discusses 'phylogenetic' migration and relation of surface 'isothermals' with dispersal.</p> <p>SJH:tjj M</p>

<p>Odiorne, J.M. (1957) 571207 <u>In "The Physiology of Fishes". Vol. II.</u> <u>Behaviour.</u> Edited by M.E. Brown, Academic Press Inc., Publishers, New York, pp. 387-401 Color changes</p>	<p>Ogino, C. and M. Suyama (1957) 571210 <u>Bull.Jap.Soc.sci.Fish.</u>, 23(4):227-9 Variations in amino acid composition of protein during the development of egg and the growth of young fish of rainbow trout, <u>Salmo irideus</u></p> <p>Report on analysis of cultured samples; significance of results with regard to suitable diet-protein in rearing; comparison with brook trout.</p>
<p>FAO MF</p> <p>Odum, H.T. (1957) 571208 <u>Ecol.Monogr.</u>, 27(1):55-112 Trophic structure and productivity of silver springs, Florida</p> <p>The springs are described as being a thermostatic, chemostatic and biostatic ecological community in seasonally pulsing steady state climax. Structure and properties are described; metabolism and production are measured and a community budget is presented.</p> <p>GLK:glk F</p>	<p>SJH:sjh F</p> <p>Oguri, M. and T. Hibiya (1957) 571211 <u>Bull.Jap.Soc.sci.Fish.</u>, 22:621-5 (Studies on the adrenal glands of telcosts. I. Some observations from the viewpoint of the comparative histology). <u>Ni En</u></p> <p>Reports and illustrates histological studies on head kidneys and Stannius bodies of <u>Carassius auratus</u>, <u>Parasilurus</u> <u>asotus</u> and <u>Hexagrammos otakii</u>.</p> <p>SJH:sjh MF</p>
<p>Ogino, C. (1957) 571209 <u>J.Tokyo Univ.Fish.</u>, 43(1):7-11 An improved procedure for paper- chromatographic determination of amino acids</p> <p>Description of one dimensional method using several buffered solvent mixtures after initial separation by ion-exchange resin treatment.</p> <p>FAO:sjh MF</p>	<p>Oguri, M. and T. Hibiya (1957) 571212 <u>Bull.Jap.Soc.sci.Fish.</u>, 23(3):144-9 Studies on the adrenal glands of telcosts - II. On the adrenal tissues in 15 species of fishes</p> <p>Comparative histological examination of acidophil and chromaffin cells in head kidneys and Stannius bodies of <u>Salmo</u>, <u>Parasilurus</u>, <u>Carassius</u>, <u>Cyprinus</u>, <u>Misgurnus</u>, <u>Anguilla</u>, <u>Channa</u>, <u>Plotosus</u>, <u>Nippon</u>, <u>Prionurus</u>, <u>Pterois</u>, <u>Hexagrammos</u>, <u>Lepidotrigla</u>, <u>Hoplobrotula</u> and <u>Para-</u> <u>lichthys</u>.</p> <p>SJH:sjh MF</p>

Oliver, J.H. (1957) 571213
Nature, Lond., 180:617
Production of carbon in the sea

Discussion of the significance of oxygen production in experiments in the measurement of carbon production in the sea.

GLK:glk

Ln

Orange, C.J., M.B. Schaefer 571216
and F.M Larmie (1957)
Bull.interam.trop.Tuna Comm., 2(3):83-126
Schooling habits of yellowfin tuna (Neothunnus macropterus) and skipjack (Katsuwonus pelamis) in the eastern Pacific Ocean as indicated by purse seine catch records, 1946-1955.
En Es

Frequency distributions of catch-per-set, mixing of species.

SJH:sjh

M

Olson, F.C.W. (1957) 571214
Quart.J.Fla.Acad.Sci., 20(1):93-4
A seaball from Escambia County, Florida

Description of the ball.

GLK:glk

M

Oregon. Legislative Assembly. 571217
Special Interim Fisheries
Committee (1957)
Salem
Report for 1955-1957 to the Governor of the State of Oregon and the forty-ninth Legislative Assembly

MF

Omura, H. (1957) 571215
Norsk Hvalfangsttid., 46:374-90
Report on two right whales caught off Japan for scientific purposes under Article VIII of the International Convention for the Regulation of Whaling

Preliminary report of a study of two right whales encompassing the following items: colour of the body and external parasitism, proportional measurements, baleen and food, weight, reproductive organs, skeleton.

FAO:hr

M

Organisation for European 571218
Economic Co-operation (1957)
Paris, O.E.E.C., Projets, (136, 145)
Air and water pollution. The position in Europe and in the United States

MF

<p>Organisation des Nations 571219 Unies pour l'Education, la Science et la Culture (1957) UNESCO, Paris, 244 p. Ecologie humaine et animale. Compte rendu de recherches. (Human and animal ecology. Reviews of research)</p> <p>MF</p>	<p>Orr.A.P. (1957) 571222 <u>J.gen.Microbiol.</u>, (Symp.on plankton), 16:273 Some factors affecting the sinking rate of diatoms</p> <p>MF</p>
<p>Orian, A.J.E. and 571220 H.G. Callan (1957) <u>J.Mar.biol.Ass.U.K.</u>, 36(1):129-42 Chromosome numbers of gammarids</p> <p>The chromosomes of nine species of gammarids have been studied in oocytes and embryos. There is no evidence that polyploidy has played a part in gammarid evolution. Three of the species studied, <u>Gammarus pulex</u> (L.), <u>Marinogammarus</u> <u>marinus</u> (Leach) and <u>M. pirloti</u> (Sexton and Spooner) show chromosomal polymorphism.</p> <p>HR:hr M</p>	<p>Orr, W.L. and J.R. Grady (1957) 571223 <u>Deep-Sea Res.</u>, 4(4):263-71 Determination of chlorophyll derivatives in marine sediments</p> <p>A rapid method is given for routine determination of acetone-soluble chlorophyll derivatives in marine sediments. The pigments are extracted from 10-100 g of wet sediment by acetone and transferred to chloroform for spectrophotometric determination.</p> <p>GLK:tl M</p>
<p>Ormerod, L. (1957) 571221 <u>Harper, New York</u>, 331 p. The curving shore; the gulf coast from Brownsville to Key West</p> <p>M</p>	<p>Ortolani, G. (1957) 5711224 <u>Ric.sci.</u>, 27(8):2475-8 <u>Esperimenti di merogonia nell'uovo</u> <u>fecondato di ascidie</u> (Experiments on merogony in the fertilized egg of ascidia)</p> <p>Fertilized eggs of <u>Ciona intestinalis</u> and <u>Phallusia mamillata</u> were cut, after the emission of the first or second polar body, in vertical and horizontal planes and the resultant development of the embryo was studied.</p> <p>FAO:glk M</p>

Orton, G.L. (1957) 571225
Copeia, (1):56-8
Embryology and evolution of the pelagic fish egg

Discusses the characterization of pelagic fish embryos, and offers some comments on the evolution and systematic interpretation of egg types in the fishes.

HR:hr

MF

Outram, D. (1957) 571228
Turtax News, 35(1):16-22
The development of the Pacific herring egg

Ill. descriptions of embryonic stages comprising period of cellular division, appearance of rudimentary embryo and presence of a well-developed embryo, together with the time elapsed since fertilization.

GLK:hr

MF

Otsu, T. and 571226
H.O. Yoshida (1957)
Copeia, (1):58
Another record of the rare shark,
Euprotomiscus bispinatus, from the Pacific Ocean

Reports record of 1 specimen, with detailed position of capture.

HR:efa

M

Overbeck, J. (1957) 571229
Z.Fisch., 5:285-8
Ein Bodenstecher zur Probeentnahme in flachen Gewässern (A bottom grab for taking samples in shallow water)

Description of the instrument.

FAO:tl

MF

Outhwaite, L. (1957) 571227
Coward-McCann, New York, 479 p.
A history of an ocean

Owen, H.M. (1957) 571230
Bull.Mar.Sci.Gulf Caribb., 7(1):35-46
Etiological studies on oyster mortality.
II. Polydora websteri Hartmann - (Polychaete, Spionidae)

Worm is a parasite of Crassostrea virginica; infestation is correlated with mortality of the oysters but not substantiated as a cause by laboratory experiments.

FAO:sjh

M

M

<p>Özkul, I. (1957) 571231 <u>Balık Balıkçılık</u>, 5(2):25-7 Trawl sahaları hakkında (About trawling grounds)</p> <p>Comments about the prohibitions on trawling.</p> <p>SJH:sjh M</p>	<p>Page, I.H. (1957) 571234 <u>Sci.Amer.</u>, 197(6):52-6 Serotonin</p> <p>Properties of substances found in blood, nervous tissue and tumors in clams, octopus and jellyfish which is connected with action of involuntary muscles and blood pressure and circulation.</p> <p>FAO:sjh M</p>
<p>Pack, Y. (1957) 571232 <u>Bull.Jap.Soc.sci.Fish.</u>, 22:657-61 (A model experiment of sardine trap net, "Hisago Ami"). <u>Ni</u> En</p> <p>Illustrated account of tank experiments on resistance and relation of net configuration to water velocity on 1/350 scale model of traps used in Tai fishing ground off west coast of Wakasa Bay, Japan.</p> <p>SJH:sjh M</p>	<p>Palekar, V.C. and D.V. Bal (1957) 571235 <u>Curr.Sci.</u>, 26(11):359-60 Occurrence of <u>Bactronophorus thoracites</u> (Gould), a marine wood borer, in Bombay</p> <p>Record of wood borer from living mangrove trees.</p> <p>FAO:hr M</p>
<p>Paes-Da Franca, M.L. (1957) 571233 <u>Trab.Miss.Biol.marít.</u>, (12-16):89-106 Contribuição para o conhecimento da fauna malacológica de Angola. Moluscos bivalves (Contribution to the knowledge of the malacological fauna of Angola. Bivalvular molluscs)</p> <p>A catalogue of 11 families encompassing 18 genera and 26 species with notes and description of new forms.</p> <p>FAO:hr M</p>	<p>Palevski, N. (1957) 571236 <u>Bamidgoh</u>, 9:29-32 On improving growing plans in fish ponds</p> <p>Discussion of effect of faulty planning in causing the 1956 yield decrease in Affikim Co-operative Settlement.</p> <p>WAD:sjh F</p>

Palmer, G. and 571237
E.I. White (1957)
The Zoological Society of London, 96 p.
Zoological Record, Vol. 92, Sect. 15,
Pisces (1955)

Reference to 1136 publications dealing
with fish, dated 1955; with subject and
author indexes.

FAO:sjh

MF

Palosuo, E. (1957) 571238
Merentutkimuslait.Julk., 174:1-14
Die Eisverhältnisse in den Finnland
umgebenden Moeren im Winter 1955-56
(The ice conditions in the seas
surrounding Finland during the winter
of 1955-1956)

Content as per title.

FAO:tl

M

Palosuo, E. (1957) 571239
Merentutkimuslait.Julk., 173:1-40
Jääpeitteiden laajuuksien vaihtelu
vuosina 1931-56 (The extent of the
ice cover at the harbours on the
Finnish coasts)

Tabulated data.

FAO:tl

M

Pampapathi Rao, K. et al.(1957) 571240
Curr.Sci., 26:113
Occurrence of Martesia striata L. in
compact clay in the Krishna estuary
region

Content as per title.

FAO:efa

MF

Pannier, F.P. (1957) 571241
Acta cient.venezol., 8:148-61
El consumo de oxígeno de plantas
acuáticas en relación a distintas
concentraciones de oxígeno (The
oxygen consumption of aquatic plants
in relation to different oxygen
concentrations)

A study of the influence of the oxygen
concentration on the rate of oxygen
consumption by different plants, and the
effect of oxygen on growth and cellular
division.

FAO:hr

F

Paquette, R.G. (1957) 571242
Tech.Rep.Dep.Oceanogr.Univ.Wash., (52)
Conference on rapid data-handling in
oceanography held at Lake Wilderness
Lodge, Maple Valley, Washington, 14-16
November 1956

Parkhurst, Z.E. and 571243
M.A. Smith (1957)
Progr.Fish Cult., 19(1):39
Various drugs as aids in spawning
rainbow trout

Short notes on the anesthetic effects
of sodium amytal, tricaine methane-
sulfonate (M.S.222), methyl pentynol,
urethane, and chlorotone.

FAO:efa

F

Patterson, T.L. (1957) 571246
Rev.canad.Biol., 16(4):505-6
Changes in the normal motor and
secretory responses in the stomach of
a fish during spawning

Abstract only, describing experiments
with the cabezon, Scorpaenichthys
marmoratus in aquaria.

FAO:sjh

M

Parodiz, J.J. (1957) 571244
Ann.Carneg.Mus., 35(1):9 p.
New records of the freshwater gastropods
from the Bahama Islands

F

Penn, G.H. (1957) 571247
Tulane Stud.Zool., 5(10):231-63
Variation and subspecies of the craw-
fish Orconectes palmeri (Faxon)
(Decapoda, Astacidae)

Defines the limits of variation and
the geographic range of Orconectes
palmeri palmeri, O. p. longimanus and
O. p. creolanus.

FAO:hr

F

Pasko, D.G. (1957) 571245
N.Y.Fish Game J., 4(1):1-31
CARRY falls reservoir investigation

F

Pennak, R.W. (1957) 571248
Limnol.Oceanogr., 2:222-32
Species composition of limnetic
zooplankton communities

Discussion based on data obtained from
27 Colorado (USA) lakes by the author
compared with data from 42 selected
lakes in other parts of the world,
with special reference to species
dominance.

HR:wad

F

Pentelow, F.T.K. et al. (1957) 571249
Surveyor, Lond., 116:986-8
Sewage effluents and their effect on
fish

Permutit, Co. Ltd. (1957) 571252
B.P. 746,609
Reducing the concentration of electrolyte
in a solution (particularly sea water)

MF

M

Pérès, J.M. (1957) 571250
Bull.Fac.Sci., Marseille, (12):4-21
Le problème de l'étagement des formations
benthiques (Problems of zonation of
benthic formation)

Discussion and comparison of different
systems and nomenclatures of littoral
zonations and proposal of a new system
and nomenclature.

Petruschewski, G. (1957) 571253
Z.Fisch., 5:235-46
Die Erforschung der Fischkrankheiten in
der Sowjetunion (Investigation on
fish diseases in the Soviet Union)

A review with numerous Russian references.

GLK:tl

M

FAO:tl

MF

Pérès, J.M., J. Picard 571251
and M. Ruivo (1957)
Bull.Inst.océanogr.Monaco, (1092):1-30
Résultats de la campagne de recherches
du bathyscaphe F.N.R.S.III. (Results
of the research expedition of the
bathyscaphe F.N.R.S.III)

Contains the results of observations
made on oceanographic conditions,
plankton and benthos during six descents
on the Portuguese coast.

Philip, J.R. (1957) 571254
Ecology, 38:107-11
Sociality and sparse populations

As asocial population of a sexual species
is defined as one in which the
individuals move in a random manner.
The properties of such a population are
investigated and compared with those of
a "social" population in which sparsity
of population does not limit reproductive
opportunity.

FAO:hr

M

FAO:glk

MF

Philippines. Bureau of Fisheries (1957)
Manila, 61 p. (mimeo)
Fisheries statistics of the Philippines, 1955

Annual tables for years 1946-55 for fish production, consumption and requirements; vessel and gear inventory; fish-ponds; foreign trade; transport; fishing grounds and regions.

GLK:sjh

MF

Phillips, A.M., Jr. 571256
and G.C. Balzer (1957)
Progr.Fish Cult., 19:158-66
The nutrition of trout - V. Ingredients for trout diets

Explains why food is necessary, what ingredients should be used, and the methods of measuring the efficiency of diets; tables list the chemical composition, the vitamin content of some foods and some diet mixtures.

WAD:wad

F

Phillips, A.M., Jr. 571257
and H.A. Podoliak (1957)
Progr.Fish Cult., 19(2):68-75
The nutrition of trout. III. Fats and minerals

A review of the fat and mineral requirements in the animal body with specific reference to trout.

WAD:wad

F

Phillips, A.M. Jr. et al. (1957) 571258
Progr.Fish Cult., 19(1):19-25
A chemical comparison of hatchery and wild brook trout

Experiments on Salvelinus fontinalis indicate that natural foods produce trout superior in many chemical respects to trout reared on hatchery foods despite the assumed nutritional superiority of the latter.

WAD:wad

F

Phillips, O.M. (1957) 571259
J.Fluid Mech., 2:417-45
On the generation of waves by turbulent wind

Piccard, J. and 571260
R.S. Dietz (1957)
Deep-Sea Res., 4(4):221-9
Oceanographic observations by the bathyscaph TRIESTE (1953-1956)

A brief description of the bathyscaph principle is given, followed by a summary of physical, biological and geological observations, which have been made thus far. The special advantages of the bathyscaph over conventional oceanographic ships are mentioned.

GLK:tl

M

<p>Pickard, G.L. and R.W. Trites (1957) <u>J.Fish.Res.Bd Can.</u>, 14:605-16 Fresh water transport determination from the heat budget with applications to British Columbia inlets</p> <p>Describes a new method based on a heat budget analysis for determining the mean seaward movement of the brackish layer. The method is also applied to gain information on the mixing process and to determine the depth from which salt water is entrained into the surface layer.</p> <p>GLK:glk MF</p>	<p>Pierson, W.J., Jr. (1957) 571264 <u>Paper presented at the Thirty-Eighth Annual Meeting, Washington, D.C., April 29 - May 2, 1957</u> The directional spectrum of a wind-generated sea. Part II. Analysis of data and results</p> <p>M</p>
<p>Pidgaiko, M.L. (1957) 571262 <u>Vop.Ikhtiolog.</u>, 8:129-42 Zooplankton prудov stepnoi zony Ukrainy (Pond zooplankton in the steppe zones of the Ukraine)</p> <p>Discussion of qualitative and quantitative characteristics of this plankton which was composed of 18 species of cladocera, 17 species of copepoda and 23 species of rotatoria.</p> <p>FAO:glk F</p>	<p>Pillay, T.V.R. (1957) 571265 <u>Indian J.Fish.</u>, 4(1):150-9 On the abundance of the Hilsa, <u>Hilsa ilisha</u> (Hamilton) in the Hooghly and Padma rivers, during 1955</p> <p>Length frequencies and racial composition.</p> <p>GLK:glk MF</p>
<p>Pielou, E.C. (1957) 571263 <u>J.Ecol.</u>, 45:31-47 The effect of quadrat size on the estimation of the parameters of Neyman's and Thomas' distributions</p> <p>A theoretical study of clustered distributions, tested by constructing and sampling artificial populations.</p> <p>FAO:sjh MF</p>	<p>Pillay, V.K. (1957) 571266 <u>Proc.Indo-Pacif.Fish.Counc.</u>, 5:78-81 Some factors controlling algal production in salt-water lagoons</p> <p>FAO M</p>

Pimienta, J. (1957) 571267
Bull.Com.cent.Océanogr., 9(10):565-9
Le delta de la Medjerda (The delta
of the Medjerda)

Description of littoral and fluviatile
phenomena and discussion of cyclothematic
sedimentation.

FAO:glk

MF

Piskunov, I.A. (1957) 571270
Zool.Zh., 31(1):115-21
On the fecundity of the herring (Clupea
harengus pallasii V.) spawning along
the western coast of the Sachalin
Island

FAO

M

Pinckard, W.F. (1957) 571268
Progr.Rep.Pacif.Cst Stas., (109):6-8
Pomfret off the British Columbia coast

Distribution map for figure of and
notes on Brama raii especially in
samples taken May-Sept., 1956. Stomach
contents.

GLK:sjh

M

Planas Mestros, J. (1957) 571271
Invest.pesq., 7:99-103

Estudio sobre el contenido insulínico
del atún atlántico (A survey on
the insulin content of the Atlantic
tuna)

Contains the results of measurements
of insulin in pancreatic extracts of
Thunnus thynnus.

FAO:hr

M

Pirozhnikov, P.L. (1957) 571269
Zool.Zh., 36(8):1273-9
Raboty laboratorii gidrobiologii
VNIORKH (The work of the
hydrobiological laboratories
of the Union Scientific Research
Institute of Lake and River Fishery Economy)

Account of new results obtained and
the next problems to be attacked in
researches on Lakes Hmen and Ladozh,
the Obi and lower Volga rivers, and
Finnish bays.

FAO:glk

F

Plunkett, M.A. (1957) 571272
Deep-Sea Res., 4(4):259-62

The qualitative determination of some
organic compounds in marine sediments

Four sediment samples from the Caribbean
Sea were analysed qualitatively for
free sugars, amino acids and simple
organic acids. Two of the samples were
from an anaerobic basin; two were from
aerobic areas. The sediments were
extracted with hot water and 70 per
cent ethanol. The organic materials
in the extracts were separated and
studied qualitatively on paper
chromatograms.

GLK:tl

M

<p>Poisson, R., and G. Richard (1957) 571273 <u>C.R.Acad.Sci., Paris</u>, 244:1076-9 Observations on swarms of corises (aquatic heteropteran insects) in Brittany during the summer of 1956</p>	<p>Popham, H. (1957) 571276 <u>Hart-Davis, Lond.</u>, 207 p. Cape of Storms; trawling off the coast of north Russia</p>
<p>FAO F</p>	<p>M</p>
<p>Politis, J. (1957) 571274 <u>C.R.Acad.Sci., Paris</u>, 244:511-3 Cytology of formation of carotinoids in some fish</p>	<p>Portugal. Comissão Central 571277 de Pescarias (1957) <u>Ministério da Marinha, Lisboa</u>, 55 p. Estatística das pescas marítimas no continente e ilhas adjacentes no ano de 1952 (Marine fisheries statistics for the continent and adjacent islands in 1952)</p> <p>Production of fish, molluscs, crustacea and cetaceans by species, months, area and method of capture; vessels constructed and operating; numbers of fishermen employed. Includes data for brackish waters.</p> <p>FAO M :sjh MF</p>
<p>Polutov, I.A. (1957) 571275 <u>Fish Ind., Moscow</u>, (1):13-6 O zimnen tralovom promysle treski v vodakh Kamchatki (On the winter trawl cod fishery in Kamchatkan waters)</p>	<p>Portugal. Comissão Central 571278 de Pescarias (1957) <u>Ministério da Marinha, Lisboa</u>, 55 p. Estatística das pescas marítimas no continente e ilhas adjacentes no ano de 1953 (Marine fisheries statistics for the continent and adjacent islands in 1953)</p> <p>Production of fish, molluscs, crustacea and cetaceans by species, months, area and method of capture; vessels constructed and operating; numbers of fishermen employed. Includes data for brackish waters.</p> <p>FAO M :sjh MF</p>

Postel, E. (1957) 571279
Pêche marit., 36:298-9
La pêche en Tunisie (Fisheries in
Tunisia)

Notes on the species of crustaceans
commercially caught in Tunisia.

FAO:hr

M

Potter, E.C. (1957) 571280
J.appl.Chem., 7:285-97
Microdetermination of dissolved oxygen
in water. I. Nature of the problem

MF .

Potter, E.C. (1957) 571281
J.appl.Chem., 7:297-308
Microdetermination of dissolved oxygen
in water. II. Design of water-sampling
vessels

MF

Potter, E.C. (1957) 571282
J.appl.Chem., 7:309-17
Microdetermination of dissolved oxygen
in water. III. Titrimetric determination
of iodine in submicrogram amounts

MF

Potter, E.C. and 571283
J.F. White (1957)
J.appl.Chem., 7:317-28
Microdetermination of dissolved
oxygen in water. IV. Test of Winkler's
reaction to below 0-001 p.p.m. of
dissolved oxygen

MF

Potter, E.C. and 571284
J.F. White (1957)
J.appl.Chem., 7:459-67
Microdetermination of dissolved
oxygen in water. V. Development of
a self-testing and fully compensating
analytical method

MF

Powell, C. (1957) 571285
Int.hydr.Rev., 34(1):53-8
Le système de navigation "Decca" en
hydrographie (The navigation
system "Decca" in hydrography)

A brief summary of some examples of the
use of "Decca" in hydrography with some
leads for its present and future
development.

FAO:hr

M

Preddy, W.S. (1957) 571288
Challenger Soc., 3(9):32
The Thames estuary and its pollution.
IV. Prediction of conditions in the
estuary

Abstr. of paper read at Joint Meeting
of the Water Pollution Research
Laboratory, Stevenage; and Zoological
Society of London, Regent's Park,
London. 24th and 25th January, 1957.
Outline of method of calculating
conditions of water from nature and
amounts of effluents discharged.

SJH:efa

MF

Powell, R. (1957) 571286
Quart.Bull.S.Pacif.Comm., 7(1):15-7
Pearl shell transfer in the Cook Islands

Account of an experimental transplanta-
tion of Pinctada margaritifera, with
description of equipment.

:glk

M

Pringsheim, E.G. (1957) 571289
Nature, Lond., 180:1296-7
Two species of Trachelomonas
(Eugleninae) without chlorophyll

A record of two heterotrophic forms:
one may be T. volvocina var. hyalina;
the other is T. reticulata.

GLK:wad

MF

Prasad, R. Raghu (1957) 571287
Indian J.Fish., 4(1):20-31
Seasonal variations in the surface
temperature of sea-water at Mandapan
from January 1950 to December 1954

Monthly maximum and minimum
temperatures and monthly deviations
from the "normal" as represented by
the total monthly averages during
the period, and relation between
atmospheric and surface temperatures.

GLK:glk

M

Pritchard, D.W. (1957) 571290
Paper presented at the Thirty-Eighth
Annual Meeting, Washington, D.C.,
April 29 - May 2, 1957
On the question of non-tidal drift
in estuaries

MF

Privol'nev, T. (1957) 571291
Sci. and Life, Moscow, 24:63
Are there fish living without water?

MF

Proudman, J. (1957) 571294
J. Fluid Mech., 2:371-82
Oscillations of tide and surge in an
estuary of finite length

MF

Prophet, C.W. (1957) 571292
Res. Stud. St. Teach. Coll. Emporia, 5(3):
56 p.
Seasonal variations and abundance of
Cladocera and Copepoda and some
physical-chemical conditions of the
Fall and Verdigris rivers in Wilson
and Montgomery Counties, Kansas

F

Provasoli, L., J.J.A. McLaughlin 571295
and M.R. Droop (1957)
Arch. Mikrobiol., 25:392-428
Artificial media for marine algae

M

Prosser, C.L. et al. (1957) 571293
Physiol. Zool., 30(2):137-41
Acclimation of goldfish to low
concentrations of oxygen

Experimental comparison of (1) critical
concentration (break between independent
and dependent metabolism), (2) oxygen-
independent metabolism, (3) haemoglobin
concentration and red-cell count,
(4) oxidative activity of tissues, in
fish acclimated to low oxygen concentra-
tion and fish in aerated water.

FAO:glk

F

Pucher-Potkovic, T. (1957) 571296
Acta adriat., 6:1-56
Etude du phytoplancton dans la région
de l'île de Mljet dans la période 1951-
1953. (A study of the phytoplankton
in the region of the Island of Mljet
during 1951-1953). Hr

A quantitative and qualitative study
of the phytoplankton of the lakes
Mljet and of Gonoturska carried out
concurrently with experiments of
fertilization.

FAO:glk

F

Puke, C. (1957) 571297
Vandringsfisk.Medd., (6):8 p. (mimeo)
Naturdammsundersökningar i nedre
Norrrland 1956 (Investigations on
natural ponds in lower Norrrland 1956)

Results of investigations on the
production of salmon and trout smolt
in different ponds and the influence
of different environmental conditions
on the production.

TL:tl

F

Radan, G. (1957) 571300
Fish.Bull., Haifa, (14):12-3
(Attic fish plate). Iw En

Describes and figures a plate in
possession of Haifa Maritime Museum,
with identifiable fish (Torpedo,
Sargus, and Pagellus) in the
decoration.

SJH:sjh

M

Rabouille, G. (1957) 571298
Bull.franç.Pisc., 30(187):37-47
La protection des eaux contre la
pollution dans le bassin industriel
de Longwy (The protection of
water from pollution in the industrial
basin of Longwy)

Describes methods of treatment of
residues.

FAO:hr

F

Rae, K.M. (1957) 571301
Bull.Mar.Ecol., 4(38):247-69
A relationship between wind, plankton
distribution and haddock brood strength

Distribution of Metridia lucens;
relationship between the wind and the
distribution of Metridia, the movement
of plankton and haddock brood strength
in the northern North Sea.

FAO:tl

M

Racek, A.A. (1957) 571299
Res.Bull.St.Fish., N.S.W., (2):209-41
Littoral Penaeidae from New South
Wales and adjacent Queensland waters

GLK

M

Rae, K.M. (1957) 571302
J.gen.Microbiol.(Symp.on plankton),
16:265-7

Plankton around the British Isles

Summary on the significance of indicator
species.

FiB:tl

M

Rahn, J. (1957) 571303
Dtsch.Fisch.Ztg, 4:70-2
Satzzaale oder Aalbrut? (Stocking
with eel or with eel fry?)

Discussion on the results of stocking
of waters with eel and eel fry and
profitability.

FAO:tl

F

Ramasasthy, A.A. et al. (1957) 571306
Proc.Indian Acad.Sci., 46B:293-323
Thermal field and oceanic circulation
along the east coast of India

M

Rakestraw, N.W., P.L. Horrer 571304
and W.S. Wooster (1957)
University of California Press, Berkeley
and Los Angeles, 363 p.
Oceanic observations of the Pacific
1949

M

Ranade, M.R. (1957) 571307
J.Mar.biol.Ass.U.K., 36(1):115-9
Observations on the resistance of
Tigriopus fulvus (Fischer) to
changes in temperature and salinity

Tigriopus fulvus can live normally within
a salinity range of from 4.2 to 90‰.
In waters of salinities above 90‰ it
falls into a state of apparent death
from which it can recover if transferred
back to lower salinities. The lethal
temperatures vary between 32.0 and
41.8 C. depending on the salinity of
the sea water, the lethal temperature
being higher in higher salinities. The
fluctuations in salinity and temperature

Ralph, P.M. (1957) 571305
Trans.roy.Soc.N.Z., 84(4):811-54
New Zealand thecate hydroids. Part I.
Campanulariidae and Campanulinidae

Reviews the New Zealand hydroid
literature; keys the New Zealand
families of thecate hydroids, the
genera and species of New Zealand
Campanulariidae and Campanulinidae;
describes and discusses the systematic
status of the New Zealand species of
these two families; proposes certain
changes in nomenclature; gives some
new records.

FAO:glk

M

571307
(Card 2)

in the pools where the animals were
collected are well within their
tolerance limits.

HR:hr

M

Ranade, M.R. (1957) 571309
Nature, Lond., 179:151-2
Reversal of phototaxis in the larvae of
Polydora pulchra Carazzi (Polychaeta,
Spionidae)

Experiments indicating that direction
of phototaxis is determined by salinity.

GLK:wad

M

Rao, K.V.N. (1957) 571312
J.Indian bot.Soc., 36:87-91
On a form of Raphidiopsis mediterranea
Skuja

F

Ranade, M.R. and 571310
J.S. Colman (1957)
Rep.Mar.biol.Sta.Pt Erin, 69:34-9
Notes on the west pond at Port Erin

Water temperature composition, and
plankton content of sea-water pond
used for stocking fish, April-June,
1956, and comparison with local sea
conditions in same period.

FAO:sjh

M

Rao, K.V.N. and K.P. Rao (1957) 571313
Nature, Lond., 180:711-2
Differences in the food of the young
and adult Indian mackerel, Rastrelliger
kanagurta (Cuv.)

When longer than 90 mm plankton forms
the principal food. Below this size
feeding is selective, and fish larvae
form staple diet. Growth of gut is
allometric, and change in diet
coincides with change of relative
growth rate of gut.

GLK:jae

M

Ranganathan, B. and 571311
C.A. Sastry (1957)
J.Indian Inst.Sci., 39A:259-62
Vitamin requirements of Torulopsis
glabrata, a marine yeast

M

Rapoport, E.H. (1957) 571314
Nature, Lond., 179(4560):637-8
Population studies on three species of
Cladocera

Studies on the morphological changes
(seasonal and local) of the Cladoceran
Bosmina obtusirostris.

GLK:glk

M

Rasmussen, B. (1957) 571315
Norsk Hvalfangsttid., 46:45-59
Exploitation and protection of the East
Greenland seal herds

A study of the biology, dynamics of the
populations, catches, and measures of
protection of the species of hairseals,
hooded seal (Cystophora cristata) and
harp sea (Phoca groenlandica).

FAO:shr

M

Rattray, M., Jr. (1957) 571318
Trans.Amer.geophys.Un., 38(4):495-500
Propagation and dissipation of long
internal waves

The effect of friction on the propagation
of long internal waves in a rotating
ocean is investigated theoretically for
the simple case of a two-layer system
subjected to a constant eddy viscosity.
Waves of inertial period are excluded.

GLK:tl

M

Rathjen, W.F. and 571316
L.C. Miller (1957)
N.Y.Fish Game J., 4(1):43-60
Aspects of the early life history of
the striped bass (Roccus saxatilis)
in the Hudson river

MF

Reed, C.A. (1957) 571319
Copeia, (1):51
Non-swimming water turtles in Iraq

Reports brief observations on non-
swimming behaviour of Clemmys caspica
caspica (Gmelin).

HR:efa

F

Rattray, M., Jr. (1957) 571317
Trans.Amer.geophys.Un., 38(5):675-9
On the offshore distribution of tide
and tidal current

The tides and tidal currents in offshore
regions where the frictional effect is
negligible are obtained from the tides
at the adjacent shore stations by an
approximate solution of the tidal
equations.

FAO:tl

M

Rees, C.B. (1957) 571320
Bull.Mar.Ecol., 37:211-46
Continuous plankton records: the
distribution of Calanus finmarchicus
(Gunn.) in the North Sea and north-
eastern Atlantic, 1946-1953

Distribution and seasonal and year to
year variations in abundance. Life
history and the different ecological
requirements and different geographical
distribution of the two different forms
finmarchicus and helgolandicus.

FAO:tl

M

<p>Rees, W.H. (1957) 571321 <u>Fish.Res.Pap.Wash.Dep.Fish.</u>, 2(1):5-17 The vertical and horizontal distribution of seaward migrant salmon in the forebay of Baker dam</p> <p>Experiments conducted spring 1955 with sets of nylon gill nets to study <u>Oncorhynchus nerka</u> and <u>O. kisutch</u>. Catches per unit effort in various positions and at various times; selectivity of nets, effect of weather conditions.</p> <p>FAO:sjh MF</p>	<p>Reid, G.K. (1957) 571324 <u>Copeia</u>, (2):157-8 External morphology of an embryo whale shark, <u>Rhincodon typus</u> Smith</p> <p>Contains description and dimensions of the specimen found in Texas waters.</p> <p>HR:efa M</p>
<p>Rees, W.J. and E. White (1957) 571322 <u>Discovery Rep.</u>, 29:129-40 New observations on the aberrant medusa <u>Tetraplatia volitans</u> Busch</p> <p>Geographical and vertical distribution and correlations to hydrographic conditions.</p> <p>FAO:glk M</p>	<p>Reid, G.K. (1957) 571325 <u>Limnol.Oceanogr.</u>, 2:198-212 Biologic and hydrographic adjustment in a disturbed gulf coast estuary</p> <p>Hydrographic investigations of East Bay, Galveston, Texas, before and after the excavation of a pass, including the change of marine fauna in the bay.</p> <p>HR:tl MF</p>
<p>Regenthal, A.F. (1957) 571323 <u>Fish.Res.Pap.Wash.Dep.Fish.</u>, 2(1):19-24 Downstream migrant salmon survival in free fall from a ski-jump spillway</p> <p>Survival of tagged <u>Oncorhynchus kisutch</u> after passage over Baker dam on Baker river, Washington, USA.</p> <p>FAO:sjh MF</p>	<p>Reid, R.O. (1957) 571326 <u>Tech.Memor.U.S.Army Eros.Bd</u>, (93):33 p. Modification of the quadratic bottom-stress law for turbulent channel flow in the presence of surface wind-stress</p> <p>M</p>

heid, R.O. and 571327
K. Kajiura (1957)
Trans.Amer.geophys.Un., 38(5):662-6.
On the damping of gravity waves over a
permeable sea bed

The problem of damping of gravity waves
over a permeable sea bed of great depth
is re-examined, using a more rigorous
approach than that employed by Putnam
in 1949.

FAO:tl

M

Reimers, N. (1957) 571328
Calif.Fish Game, 43(1):43-69
Some aspects of the relation between
stream foods and trout survival

Experiments and observations bearing on
the general problems of winter trout
food availability, trout vitality, and
trout survival as related to food.

HR:wad

F

Reish, D.J. (1957) 571329
Industr.Wastes, 2:114-8
Effect of pollution on marine life

M

Remington, J.D. (1957) 571330
Sea Frontiers, 3:98-108
Saga of the sockeye

Popular account of the history of the
salmon fishery in the Fraser river
system.

HR:sjh

F

Resovskaya, E.A.T. (1957) 571331
Bull.Soc.Nat.Moscou, 62(1):37-41
Biological de-activation of water
containing radio-active substances
by means of special ponds

Revelle, R. (1957) 571332
Science, 126(3287):1319-23
International cooperation in marine
sciences

Account of UNESCO's marine science
programme and of the Special Committee
on Oceanic Research established by the
International Council of Scientific
Unions.

FAO:glk

M

Revelle, R. and 571333
H.E. Suess (1957)
Tellus, 9:18-27
Carbon dioxide exchange between
atmosphere and ocean and the
question of an increase of atmospheric
CO₂ during the past decades

From a comparison of C¹⁴/C¹² and C¹³/C¹²
ratios in wood and in marine material and
from a slight decrease of the C¹⁴
concentration in terrestrial plants
over the past 50 years it can be
concluded that the average lifetime of
a CO₂ molecule in the atmosphere
before it is dissolved into the sea is
of the order of 10 years.

FAO:glk

M

Richardson, F. (1957) 571336
Bull.Bishop Mus., Honolulu, 218:41 p.
The breeding cycles of Hawaiian sea
birds

M

Reznichenko, O.G. (1957) 571334
Zool.Zh., 36(9):1312-22
Ekologiya i kormovoe znachenie Ponto-
gammarus maeoticus (Sow.) Azovskogo
moria (Bionomics and feeding value
of Pontogammarus maeoticus (Sow.) in the
sea of Azov)

Observations of the distribution of
Pontogammarus in connection with its
behaviour, mode of life and feeding
habits as related to the movement of
the water.

FAO:tl

M

Richardson, I.D. (1957) 571337
Fish.News Lett.Aust., 16(8):7-9
Problems in mid-water trawling

Reprint of article originally published
in "World Fishing (London)".

GLK:sjh

M

Richardson, E.G. (1957) 571335
Elsevier, Amsterdam, 412 p.
Technical aspects of sound. Vol.2.
Ultrasonic range, underwater acoustics

Richdale, L.E. (1957) 571338
Oxford: Clarendon Press; London: Oxford
University Press, 195 p.
A population study of penguins

Includes information on fish as food
of Megadyptes antipodes.

M

:sjh

M

<p>Ricotta, C.M.B. (1957) 571339 <u>Experientia</u>, 13(12):491-2 On the adenosinetriphosphatase activity of the particulates of the egg of the sea urchin <u>Paracentrotus lividus</u></p> <p>Separation of mitochondria and measurement of ATPase activity.</p> <p>FAO:glk M</p>	<p>Riley, J.P. (1957) 571342 <u>Challenger Soc.</u>, 3(9):35 Recent chemical work in the Department of Oceanography, Liverpool</p> <p>Abstr. of paper read at Joint Meeting of the Water Pollution Research Laboratory, Stevenage; and Zoological Society of London, Regent's Park, London, 24th and 25th January, 1957. Notes on recent developments in analytical chemistry of sea-water with particular reference to colorimetric determination of nitrate and use of micro diffusion for estimation of ammonia, total ionic inorganic nitrogen, and amino-nitrogen.</p> <p>SJH:efa M</p>
<p>Riggs, C.D. (1957) 571340 <u>Copeia</u>, (2):158-9 <u>Mugil cephalus</u> in Oklahoma and northern Texas</p> <p>Reports record of sp. and gives possible explanation for presence.</p> <p>HR:efa MF</p>	<p>Riley, J.P. and 571343 P. Sinhaseni (1957) <u>J.Mar.biol.Ass.U.K.</u>, 36(1):161-8 The determination of ammonia and total ionic inorganic nitrogen in sea water</p> <p>Microdiffusion using a Cavett flask has been employed instead of vacuum distillation for the separation of ammonia from sea water. The recovered ammonia is determined by a modification of the phenate-hypochlorite method. Raney nickel in the presence of ethylenediamine-tetraacetic acid has been used for the reduction of nitrate and nitrite to ammonia. The latter is separated by microdiffusion and determined colorimetrically. No</p>
<p>Riley, G.A. (1957) 571341 <u>Limnol.Oceanogr.</u>, 2:252-70 Phytoplankton of the north central Sargasso Sea, 1950-52</p> <p>Quantitative and qualitative analysis of phyto- and zooplankton, collected weekly by weather ship (35° N, 48° W). Estimation of basic organic production at that position. Investigations include also temperature measurement and Secchi disk readings.</p> <p>HR:tl M</p>	<p>571343 (Card 2)</p> <p>interference was encountered from a variety of organic nitrogen compounds.</p> <p>HR:tl M</p>

Risley, H.M. (1957) 571345
J.Ass.Off.agric.Chem.Wash., 40:343-5
 Determination of total solids and ether
 extract in fish and other marine
 products

M

Roberts, J.L. (1957) 571346
Physiol.Zoöl., 30:232-42
 Thermal acclimation of metabolism in
 the crab Pachygrapsus crassipes Randall.
 I. The influence of body size,
 starvation, and molting

Considers metabolism-size relations
 with regard to temperature, starvation
 and molting, and discusses the method
 used to standardise grouped respiration
 data of crabs in specific experiments
 to a common weight as applied in
 acclimation studies reported else-
 where.

FAO:glk

M

Rivoro, J.A. (1957) 571346
Paper presented at the Inter-Island
Marine Biological Conference, March 31
to April 6, 1957
 Haematotholassia in Puerto Rico

Description of the outbreak,
 observations made on fish mortality
 and B₁₂ assays of deposits formed
 from settling of the dinoflagellate.
 Abstract in "Report by the Institute
 of Marine Biology, University of
 Puerto Rico".

HR:glk

M

Roberts, J.L. (1957) 571349
Physiol.Zoöl., 30:242-55
 Thermal acclimation of metabolism in
 the crab, Pachygrapsus crassipes
 Randall. II. Mechanisms and the
 influence of season and latitude

Study of adult phenotypic compensations
 by the shore crab, Pachygrapsus
crassipes, with attempts to
 characterise the pattern of development
 and the degree attained of respiratory
 acclimation to experimental temperatures
 in both local and latitudinally
 separated populations. Discussion of the
 ecological significance of temperature
 acclimation and of the structural level
 at which it functions.

FAO:glk

M

Roberts, B. and 571347
 T. Armstrong (1957)
Polar Rec., 8(55):306-16
 The Arctic Institute, Leningrad

Description of the institute and its
 activities.

FAO:t1

MF

Robertson, J.S. (1957) 571350
Physiol.Rev., 37:133-54
 Theory and use of tracers in determining
 transfer rates in biological systems

Notes on terminology and mathematical
 treatment of the results in different
 systems with and without recycling of
 tracers.

FAO:t1

MF

Robertson, O.H. (1957) 571351
Calif. Fish Game, 43(2):119-30
 Survival of precociously mature king
 brood male parr (Oncorhynchus
mykiss Juv.) after spawning
 laboratory, experiment and post-mortem
 of 60 ripe parr.

FAO:sjh

F

Robins, C.R. (1957) 571354
Mar.Lab.Univ.Miami, 57-13:1-8 (mimeo)
 The Charles F. Johnson oceanic gamefish
 investigations. A study of bluefin tuna
 populations from the eastern and
 western North Atlantic based on an
 analysis of fin-ray and gill-raker
 counts

No difference between groups of
Thunnus thynnus in the Atlantic were
 found, but gill-raker differences
 between Atlantic and California stocks
 show divergence of at least sub-
 specific, and possibly specific order.
 If latter is confirmed, T. saliens is
 available name for California group.
 FAO:sjh M

Robertson, O.H. and 571352
 B.C. Woxler (1957)
Science, 125:1295-6
 Pituitary degeneration and adrenal
 tissue hyperplasia in spawning
 Pacific salmon

Account of histological changes of this
 gland as sexual development proceeds;
 comparison with corresponding phenomena
 in the rainbow trout, and discussion
 of their significance with regard to
 senescence.

FAO:glk

F

Robins, C.R. (1957) 571355
Mar.Lab.Univ.Miami, 57-14:6 p. (mimeo)
 The Roger Firestone tarpon investigation.
 Progress Report, May, 1957

Notes on spawning, life history, adult
 migration and growth of the tarpon
 (Megalops atlantica).

FAO:tl

MF

Robins, C.R. (1957) 571353
Bull.Mar.Sci.Gulf Caribb., 7(3):266-75
 Effects of storms on the shallow-water
 fish fauna of southern Florida with
 new records of fishes from Florida

The importance of storms as a limiting
 factor in the shoreward distribution
 of many fishes is noted. The specimens
 collected after a storm kill in the
 region of Miami, Florida, include
 several species previously unrecorded
 or of rare occurrence in Florida waters.

FAO:glk

M

Robins, C.R. and 571356
 E.C. Raney (1957)
Tulane Stud.Zool., 5(12):291-318
 The systematic status of the suckers of
 the genus Moxostoma from Texas, New
 Mexico and Mexico

Key; description and synonymy of each
 species with notes on coloration,
 sexual dimorphism and distribution.

FAO:glk

F

Robinson, G.A. (1957) 571357
Bull.Mar.Ecol., 4:203-9
The forms of Rhizosolenia alata
Brightwell

Differentiation of several forms by
size-frequency distribution of cells.

FAO:sjh

M

Rochford, D.J. (1957) 571358
Oceanogr.Sta.List, 28:1-88
Surface sampling in the Tasman and
Coral Seas, 1955

Tabulated hydrographical data.

GLK:tl

M

Rochford, D.J. and 571359
R.S. Spencer (1957)
Oceanogr.Sta.List, 27:1-145
Onshore and oceanic hydrological
investigations in eastern and south-
western Australia, 1955

Tabulated hydrographical data.

GLK:tl

M

Rochford, D.J. and 571360
R.S. Spencer (1957)

Oceanogr.Sta.List, 30:79 p.
Onshore and oceanic hydrological
investigations in eastern and south-
western Australia, 1956

Tabulated oceanographical data (including
O₂, pH, NO₃-N and total P).

GLK:tl

M

Rochford, D.J. and 571361
R.S. Spencer (1957)
Oceanogr.Sta.List, 31:150 p.
Surface sampling in the Tasman and
Coral Seas and the south-eastern
Indian Ocean, 1956

Tabulated oceanographical data (date,
position, depth, T. Cl^o/oo and total
P).

GLK:tl

M

Röbke, H. (1957) 571362
Veröff.Inst.Meeresf., 5(1):103-12
Beitrag zum Chemismus der Unterweser
unter besonderer Berücksichtigung der
Erdalkalien und ihrer ökologischen
Bedeutung (Contribution to the
chemistry of lower Weser with special
consideration of metals of alkaline
earth and their ecological significance)

Distribution of chlorine, manganese,
calcium and suspended matter in lower
Weser and discussion of their ecological
significance.

GLK:tl

MF

Roels, O.A. (1957) 571363
Bull. Agric. Congo belge, 48(2):423-38
La poudre de poisson frais déshydraté
pour l'alimentation de l'homme
(Dehydrated fresh fish powder as a
human food)

M

Rogers, K.T. (1957) 571364
Biol. Bull., Wood's Hole, 112(1):241-8
Optokinetic testing of cyclopean and
synophtalmic fish hatchlings

Account of experiments to test cyclopean
individuals for vision and with results
of optokinetic drum testing.

FAO:efa

F

Rogick, M.D. (1957) 571365
Biol. Bull. Wood's Hole, 112(1):120-31
Studies on marine Bryozoa. X. Hippadenella
carsenae n.sp.

A detailed description of the
morphological features of Hippadenella
carsenae, new species and to note other
species which are ecologically
associated with it.

FAO:glk

M

Ronald, K. (1957) 571366
Canad. J. Res. (Zool.), 35(3):437-9
The metazoan parasites of the Heterosomata
of the Gulf of St. Lawrence

Echinorhynchus laurentianus sp. nov.
(Acantocephala: Echinorhynchidae) is
described from Hippoglossoides platesoides,
Hippoglossus hippoglossus, Pseudo-
pleuronectes americanus and Scophthalmus
aquosus from the Gulf of St. Lawrence.

FAO:hr

M

Roland, L.D. (1957) 571367
Atomics, 8:131-5
Ion exchange. Five contributions to
nuclear technology

MF

Rosa, H., Jr. (1957) 571368
FAO/57/10/6958, 81 p. (mimeo)
A synopsis of biological data on the
species of Trichiuridae

First draft summary and review according
to standard pattern of information
accumulated in Species and Stocks
Thesaurus of FAO Fisheries Division
Biology Branch.

FiB:sjh

M

Rouch, J. (1957) 571369
Bull.Inst.oceanogr.Monaco, (1095): 1-20
L'Antarctide américaine (The
American Antarctic)

Contains information on the boundaries
and geography of the region, limits
of the pack-ice barometric pressure,
air temperature, and winds.

FAO:hr

M

Round, F.E. (1957) 571370
J.Ecol., 45:133-48
Studies on bottom-living algae in some
lakes of the English lake district.
Part I. Some chemical features of the
sediments related to algal pro-
ductivities.

Comparisons between lakes of organic
material and calcium, pH, and many
other elements and characteristics of
the muds and relation of these to type
and amount of algae, and to lake
classifications.

FAO:sjh

F

Round, F.E. (1957) 571371
J.Ecol., 45:343-60
Studies on bottom-living algae in some
lakes of the English lake district.
Part II. The distribution of Bacillari-
phyceae on the sediments

Continuation from 571370, with
discussion and bibliography.

FAO:sjh

F

Rounsefell, G.A. (1957) 571372
Fish.Bull., U.S., 57:265-78
A method of estimating abundance of
groundfish on Georges Bank

Calibration of otter-trawl fishing
effort statistics by depth fished
and vessel size, and calculation of
sampled effective effort for each
species (tabulated) by usual method.

WAD:sjh

M

Roussov, G. (1957) 571373
J.Fish.Res.Bd Can., 14:553-72
Some considerations concerning
sturgeon spawning periodicity

Discusses the periodicity observed in
age and length curves and in cross-
sections of the first ray of the
pectoral fin serving for the
determination of age. The relation
between the structural features of the
ray cross-sections and physiological
events is discussed.

GLK:glk

F

Rovira, J.M.R. (1957) 571374
Inform.Quim.anal., 11:99-102
Spectrophotometric determination of
copper in (sea) salt

Rowett, H.G.Q. (1957) 571375
Rinehart and Co., Inc., New York 16, 62 p.
Dissection guides. II. The dogfish

M

Royce, W.F. (1957) 571376
Biometrics, 13:546
Statistical comparisons of morphological data

Abstract of paper presented at meeting of Biometric Society and American Institute of Biological Sciences, 27-8/8/57, dealing with techniques applicable to racial studies of tunas.

SJH:sjh

M

Rühmer, K. (1957) 571377
Verlag Paul Parey, 204 p.
Die Süßwasserfische und Krebse der europäischen Gewässer (Freshwater fish and lobsters in European waters)
New (3rd) edition of Rühmer, K., 1952.

MF

Ruhland, W. (Ed.) (1957) 571378
Handb.PflPhysiol., (9)
Der Stoffwechsel der schwefel- und phosphorhaltigen Verbindungen (The metabolism of sulfur and phosphorus-containing compounds)

Contains following chapters: Part played by S-containing compounds in metabolism; assimilation of sulfur and physiology of essential S-compounds; secondary organic sulfur-compounds of plants; the sulfur specialists among micro-organisms; the cycle of sulfur in nature; accumulation of phosphoric acid; the phosphatides; the phosphoric acid esters in carbohydrate metabolism; P-containing coenzymes; etc.

:tl

MF

Ruivo, M. (1957) 571379
Bol.Pesca, (53):13 p.
Factores de conversao e índices de aproveitamento do bacalhau (Gadus callarias L.). Investigações portuguesas na área da I.C.N.A.F.; campanhas de 1954-55 (Conversion factors and indexes of net value of cod (Gadus callarias L.). Portuguese investigations in the I.C.N.A.F. area. Fishing expeditions of 1954-55)

The conversion factor 3.0 is proposed for the conversion of weights of green salt cod landed from the Portuguese fleet, to round fresh fish, as coming from the sea in the I.C.N.A.F. area.

GLK:hr

M

Russell, C.R. (1957) 571380
Trans.roy.Soc.N.Z., 84(4):897-902
Some rotifers from the South Pacific Islands and northern Australia

Lists 29 species collected from the area.

FAO:glk

F

Rutstein, M.S. (1957) 571381
Trans.Amer.geophys.Un., 38(5):688-9
 Flooded quarries for experimental work

Flooded quarries have some technical and economic advantages for underwater experimental work and for testing oceanographic equipment, particularly where explosions are involved or where wave action must be minimized. The quarries visited in and near New England are described.

FAO:tl

MF

Ryhänen, R. (1957) 571384
FiskTidskr.Finl., 64(2):42-4
 Havaintoja Isojoen taimenista (Notes on the sea trout in the river Isojoki)

Growth, life history and abundance of sea trout in the river.

FAO:tl

F

Ruud, J.T. and P.Øynes (1957) 571382
Norsk Hvalfangsttid., 46:59-63
 Report on whale marking carried out by Norwegian catchers in the antarctic season 1955/56

Reports on the whale marking operations during the season 1955/56 and gives the results of markings done during the two previous seasons 1953/54 and 1954/55.

FAO:tl

M

Ryhänen, R. (1957) 571385
FiskTidskr.Finl., 64(3):84-7
 Havaintoja Isojoen taimenista (Notes on the sea trout in the river Isojoki)

Continuation from 571384.

FAO:tl

M

Ryhänen, R. (1957) 571383
FiskTidskr.Finl., 64(1):7-12
 Havaintoja Isojoen taimenista (Notes on the sea trout in the river Isojoki)

Data on the morphology of the river basin, runoff, water chemistry and on the occurrence of different fish species and their distribution and abundance.

FAO:tl

F

Ryther, J.H. and 571386
 C.S. Yentsch (1957)
 The estimation of phytoplankton production in the ocean from chlorophyll and light data

A method is described by means of which organic production beneath a unit of sea surface may be estimated from the chlorophyll content of the water, the total daily solar radiation reaching the sea surface, and the extinction coefficient of visible light in the water column. Production values calculated by this method are compared with values obtained by in situ productivity measurements.

HR:tl

M

Saidova, Kh.M. (1957) 571387
C.R.Acad.Sci.U.R.S.S., 115(6):1213-6
 O raspredelenii foraminifer v tolshche
 osadkov Okhotskogo moria (The
 distribution of Foraminifera in the
 deposits of the Okhotsk Sea)

FAO

M

Saiki, M. et al. (1957) 571388
Bull.Jap.Soc.sci.Fish., 22:645-50
 (Studies on the radioelements in the
 contaminating radioactive fish. II. On
 skipjacks caught at the Pacific Ocean
 in 1956 (Part 1)). Ni En

Isotope distribution of zinc and other
 elements in various body organs of 2
 specimens of Katsuwonus pelamis caught
 13/6/56 at 14°03'N, 157°28'E.

SJH:sjh

M

Sainio, P. (1957) 571389
FiskTidskr.Finl., 64(4):107-9
 "Roskakalan" tuhoaminen räjähdysaineita
 käyttäen (Destruction of valueless
 fish by explosives)

Notes on experiments made for destruction
 of valueless stocks of fish in small
 lake.

FAO:tl

F

Saint-Guily, B. (1957) 571390
Bull.Inst.oceanogr.Monaco, (1090):1-8
 Sur le coefficient vertical de
 turbulence dans les courants de
 vent et de ponté (On the vertical
 coefficient of turbulence in the wind
 and descent currents)

The expression of the mean coefficient
 of turbulence is deducted from the
 hypothesis of Prandtl. The numerical
 factor is fixed by the figure length
 of mixing.

FAO:hr

M

Saito, K. (1957) 571391
Bull.Jap.Soc.sci.Fish., 22(12):752-9
 (Biochemical studies on the fish blood.
 VIII. On the electrophoretic specificity
 of serum proteins). Ni En

Specificity of serum studied in relation
 to taxonomy and habitats, of Cyprinus,
Carassius, Chrysophrys, Trachurus,
Decapterus, Coryphaena, Scomber, Thunnus,
Squalus and Mustelus.

SJH:sjh

MF

Saito, K. (1957) 571392
Bull.Jap.Soc.sci.Fish., 22(12):760-7
 (Biochemical studies on the fish blood.
 IX. On the paper electrophoretic
 analysis of serum proteins). Ni En

A study of some species as previous
 paper.

SJH:sjh

MF

Saito, K. (1957) 571393
Bull.Jap.Soc.sci.Fish., 22(12):768-72
 (Biochemical studies on the fish blood.
 X. On the seasonal variation of serum
 protein components of cultured fish).
Ni En

Variations in Cyprinus and Scomber
 studied by electrophoresis and related
 to changes in seasonal feeding pattern.

SJH:sjh

MF

Sakuda, H.M. (1957) 571396
Comm.Fish.Rev., 19(11):4-6
 Meat content of Pavlof Bay king crabs

 Gives weight-length relation of Parali-
thodes camtschatica.

FAO:sjh

M

Saito, K. (1957) 571394
Bull.Jap.Soc.sci.Fish., 22(12):773-7
 (Biochemical studies on the fish blood.
 XI. On the serum protein components of
 the mature and immature stage of the
 marine elasmobranchs). Ni En

Electrophoretic study of changes
 occurring during life of Mustelus and
Dasyatis.

SJH:sjh

M

Sala, I. (1957) 571397
Geophysica, Helsinki, 5(3)
 Einige Messungen der Eisfestigkeit
 (Some measurements on ice resistance)

Description of the method used and some
 data on the strength of the ice.

:tl

MF

Saiz, F., M. Lopez-Benito 571395
 and E. Anadon (1957)
Invest.pesq., 8:29-87
 Estudio hidrográfico de la ría de Vigo
 (Hydrographic study of the Vigo Loch)

Study of the dynamics of the loch based
 on hydrographical and meteorological
 observations giving a physical and
 climatological description of the loch,
 an estimate of the water flow and
 exchanges with the sea and an account
 of the mean distribution of salinity
 and temperature.

FAO:glk

M

Sal'nikov, N.E. (1957) 571398
Vop.Ikhtiol., 8:188-90
 Zimovki sredizemnomorskogo malogo
 burevestnika (Puffinus puffinus yelkonan
Acerbi) v Chernom ore i sviaz' ikh a
 raspredeleniem khamsy (Hibernation
 of the Mediterranean small shearwater
 (Puffinus puffinus yelkonan Acerbi)
 in the Black Sea and its relation to
 the distribution of anchovies)

Discussion of the distribution of this
 bird in severe winter of 1953-54 in
 relation to that of Engraulis encrasicolus
ponticus P. and E. e. maeoticus P.,
 and of Trachurus trachurus L.

FAO:tl

M

Sanchez y Sanchez, M. (1957) 571399
J.Cons.int.Explor.Mer., 22(2):197-9
The culture of oysters in north-western Spain

Description of culture system and results obtained with limed tiles.

GLK:sjh

ML

Sanford, F.B. (1957) 571402
Comm.Fish.Rev., 19:1-8
A picture study of an American whaling operation

A pictorial study of the operation of the only existing inshore whaling station in the United States located on San Francisco Bay.

HR:hr

M

Sandeman, E.J. (1957) 571400
Progr.Rep.Atl.Cst Sta., (67):26-8
Redfish grow slowly

Length frequency distribution in catches of Sebastes marinus, in 1953-55.

FAO:sjh

M

Sano, T. (1957) 571403
J.Tokyo Univ.Fish., 43(1):75-9
Haematological studies of the culture fishes in Japan. I. On the blood of eel

Chemical and morphological analysis of blood of Anguilla japonica.

FAO:sjh

MF

Sanford, F.B. (1957) 571401
Comm.Fish.Rev., 19:16-9
Fish-hatchery food from anchovies caught near Santa Barbara, California

A photographic report of steps in capture, transportation and processing.

HR:hr

MF

Santos Pinto, J. dos (1957) 571404
Notas Estud.Inst.Biol.marit., 15:1-13
Essai d'une échelle de maturation sexuelle pour le mâles de la sardine (Sardina pilchardus Walb.) basée sur l'histologie des testicules (Experimental sexual maturity scale for the males of sardine (Sardina pilchardus Walb.) based on the histology of the testicules)

A five stage scale is described corresponding to the physiological status of the gonads.

FAO:hr

M

Santos Pinto, J. dos (1957) 571405
Trab.Miss.Biol.marit., (12-16):195-230
Contribuição para o estudo dos foraminí-
feros dos sedimentos marinhos de Angola
(Contribution to the study of Foramini-
fera of the marine sediments of Angola)

A systematic catalogue with information
on depths and places of collection and
abundance.

FAO:hr

M

Sarig, S. and G. Vardina (1957) 571406
Bamidgeh, 9(1):6-12
Improvements in fertilizing fish ponds

Discusses distribution of fertilizer in
the pond and spacing the fertilizer
supply in time.

WAD:tjj

F

Sarojini, K.K. (1957) 571407
Indian J.Fish., 4(1):160-207
Biology and fisheries of the grey mullets
of Bengal

Mugil parsia and M. cunnesius.
Distribution, raciation, length-weight
relation, condition, maturation and
spawning, larval stages, sex-ration,
fecundity, age and growth, migrations,
the fishery.

GLK:glk

MF

Sasaki, S. (1957) 571408
Bull.Hokkaido reg.Fish.Res.Lab., (16):
56-8

(Ecological studies on the agaroid-algae
in Hokkaido (I). On the germination
of the tetraspores in Gracilariopsis
vermiculophylla Ohmi in lake Akkeshi,
Hokkaido). Ni En

Ill. account of study made 1954-6
showing that germination is of type
"Typus discalis mediatus". Description
of the spores.

FAO:sjh

F

Sasaki, S. (1957) 571409
Bull.Hokkaido reg.Fish.Res.Lab., (16):
59-62

(Ecological studies on the agaroid-algae
in Hokkaido (II). On the germination of
the tetraspores of unattached Gracilaria
verrucosa (Huds.) Papf. in lake Akkeshi,
Hokkaido). Ni En

Study made from 1954 to 1956 shows
germination is of the same type as
"Typus discalis mediatus" and
Gracilariopsis vermiculophylla;
tetraspores are smaller than in latter
sp. Ill.

FAO:sjh

F

Sathpathi, N. (1957) 571410
Nature, Lond., 179(4566):913-4
A direct recording instrument for size.
Analysis of coarse granular material

Description of a modified form of
Emery's sedimentation tube where the
successive cumulation heights of the
sedimentation column are recorded
on a photographic paper wrapped over
a revolving drum.

GLK:tl

MF

Sathyanesan, A.G. (1957) 571411
Nature, Lond., 180:98-9
Parasitism in relation to the pituitary
of Ophicephalus punctatus and Barbus
stigma

Ligula, Schistocephalus and other
trematodes and mixosporidia in these spp.
and also in Cyprinus, Carassius, Rhodeus,
Leuciscus and Gasterosteus.

GLK:sjh

F

Saunders, G.W. (1957) 571414
Bot.Rev., 23(6):389-409
Interrelations of dissolved organic
matter and phytoplankton

Review of the functions of dissolved
organic matter as nutrient, accessory
growth factor, toxins and antibiotics
and chelation. Notes on ecological
implications of dissolved organic
matter.

FAO:tl

F

Satyanarayana Rao, T.S. (1957) 571412
Sea Frontiers, 3:143-7
Science and the Indian Ocean

Brief note on the economic importance
of the Indian Ocean and on past and
current research there.

FAO:glk

M

Saunders, J.B. (1957) 571415
Smith.misc.Coll., 134(5):16 p.
Trochamminidae and certain Lituolidae
(Foraminifera) from the recent
brackish-water sediments of Trinidad,
British West Indies

FAO

MF

Saubert, S. (1957) 571413
S.Afr.J.Sci., 53(13):335-9
Amino acid deamination by Nitzschia
thermalis and Scenedesmus bijugatus

Pure cultures of Nitzschia thermalis
and Scenedesmus bijugatus, containing
amino acids as the only source of
nitrogen, deaminated glycine, alanine,
proline, glutaminic acid and aspartic
acid, liberating up to 90 per cent
of the nitrogen as free ammonia into
the air.

FAO:tl

F

Scattergood, L.W. and 571416
G.W. Coffin (1957)
Copeia, (2):155-6
Records of some Gulf of Maine fishes

A record of the following species:
Carcharodon carcharias, Mugil cephalus,
Sarda sarda, Hippocampus hudsonius,
Naukrates ductor, Pseudopriacanthus
altus.

HR:hr

M

<p>Schaefer, E.A. and H.C. Johnson (1957) <u>Comm.Fish.Rev.</u>, 19(1):9-25 Shrimp explorations off the Washington coast, fall 1955 and spring 1956</p> <p>Describes the operations, area explored and bottom conditions, and the gear used. Gives detailed tables of operations showing location, conditions and results.</p>	<p>571417</p>	<p>Schäperclaus, W. (1957) <u>Z.Fisch.</u>, 5:161-74 Ursache und Auswirkungen der Frühjahrs- pH-Werterhöhungen in Karpfenteichen (Origin and effects of spring increases of pH in carp ponds)</p> <p>The change of pH by plankton and its influence on growth and mortality of carps.</p>	<p>571420</p>
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HR:glk

M

FAO:tl

F

<p>Schäperclaus, W. (1957) <u>Dtsch.Fisch.Ztg.</u>, 4:79-82 Praktische Anleitung zur intraperitonealen Injektion von Chloronitrin bei zweisömmrigen Karpfen (Practical instructions for intraperitoneal injection of chloronitrin to two-summer old carps)</p>	<p>571418</p>
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Content as per title.

<p>Schärfe, (1957) <u>Allg.FischwirtschaftZtg.</u>, 9(21):14-6 Kleinecholote für die Küstenfischerei (Small echosounders for coastal fishery)</p> <p>Short description of available small echosounder types and their use in small vessels.</p>	<p>571421</p>
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FAO:tl

F

FAO:tl

M

<p>Schäperclaus, W. (1957) Verlag Paul Parey, 236 p. Grundriss der Teichwirtschaft (Compendium of pond culture)</p>	<p>571419</p>
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F

<p>Scholl, I.I. (1957) Paper presented at the Thirty-Eighth Annual Meeting, Washington, D.C., April 29 - May 2, 1957 On the role of the oceans in the climates of the Pleistocene</p>	<p>571422</p>
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M

Schell, I.I. (1957)
Science, 125(3241):235
Theory of ice ages

571423

Discussion on the recent climatic change,
especially the warming up of Arctic and
Atlantic Ocean.

FAO:tl

M

Schiemenz, F. and
H. Köthke, Jr. (1957)
Z.Fisch., 5:175-210

571426

Die Fischereiverhältnisse in der Elbe
vor dem Bau des Wehres in Geesthacht
(The fishing conditions in the Elbe
before the construction of the barrage
in Geesthacht)

Description of the migrations of fish,
influence of the changing water level
on fish population, propagation of fish,
influence of pollution and the present
fisheries praxis.

FAO:tl

F

Schelske, C. (1957) 571424
Res.Stud.St.Teach.Coll., Emporia, 5(3)
An ecological study of the fishes of the
Fall and Verdigris rivers in Wilson and
Montgomery counties, Kansas, March 1954
to February 1955

Schiemer, E.W. and 571427
D.W. Pritchard (1957)
Tech.Rep., Chesapeake Bay Inst., 12:16 p.
The Chesapeake Bay Institute conductivity-
temperature indicator (CBI-CTI)

Description of the apparatus and its
applicability in hydrographical
investigations of estuarine and
inshore waters.

F

FAO:tl

MF

Schevill, W.E. (1957) 571425
Sci.Mon., N.Y., 85:209-40
Follow the whale

Unfavourable critical review of book by
Sanderson, I.T. (1956), with same title.

FAO:sjh

ITF

Schindowski, E. and 571428
F.W. Tesch (1957)
Z.Fisch., 5:247-68
Methodisches zur Wachstumsrückberechnung
erläutert am Beispiel von Lucioperca
sandra Cuv. u. Val., Perca fluviatilis L.
und Salmo trutta fario L. (Methodology
on the back calculation of the growth
explained with the example of Lucioperca
sandra Cuv. and Val., P. fluviatilis
and S. trutta fario)

Construction of the scale-length
correlation curves and their usefulness
for backward computation of the growth.

FAO:tl

F

Schleicher, K.E. and A. Bradshaw (1957) 571429
Coll.Repr.Wood's Hole oceanogr.Instn,
(810)
A conductivity bridge for measurement of the salinity of sea water

Describes a new instrument for use at sea; theory of the method; tests of precision and occurrency; field tests. Ill.

FAO:sjh

M

Schmitz, H.P. (1957) 571430
Wasserwirtsch.Wassertech., 7:64-74
Küstenschutz und wissenschaftliche Grundlagenforschung (Coastguards and scientific investigation)

M

Schnakenbeck, W. (1957) 571431
Krögers Buchdruckerei, Hamburg - Blankenese, 470 p.
Die deutsche Seefischerei in Nordsee und Nordmeer (German sea fisheries in the North Sea and in the Arctic Ocean)

M

Schoffman, R.J. (1957) 571432
J.Tenn.Acad.Sci., 32(1):3-8
Age and rate of growth of the carp in Reelfoot Lake, Tennessee, for 1941 and 1956

Schooley, A.H. (1957) 571433
Paper presented at the Thirty-Eighth Annual Meeting, Washington, D.C., April 29 - May 2, 1957
Short-fetch water wave slope probability distributions

M

Schuler, F. (1957) 571434
Int.hydr.Rev., 34(2):43-6
Profils d'echogrammes et procedé pour les établir (Echogram profiles and procedure for making them)
Discussion of the performance of echo-sounders, of records obtained and their interpretation, and of factors influencing performance.

FAO:glk

M

Schultz, E.A. and 571435
H.B. Simmons (1957)
Tech.Bull.Comm.Tid.Hydr.U.S.Army, (2):28p
Fresh water-salt water density currents,
a major cause of siltation in estuaries

MF

Schweigger, E. (1957) 571438
Bol.Comp.adm.Guano, 33(7):10-20
El año 1955 - el mar durante el año 1955
(The year 1955 - the sea during the
year of 1955)

A hydrographic study encompassing
analyses of temperatures and winds
on the western coast of South America.

FAO:hr

M

Schuster, R. (1957) 571436
Vie et Milieu, 8(1):109
Das Kalkalgen-Trottoir and der Côte des
Albères als Lebensraum terricoler
Kleintiere (Terraces of calcareous
algae on the Côte des Albères as
biotope for small terrestrial animals)

Supplement to Schuster, R. (1956), Vie
et Milieu, 2(7):242-57.

FAO:hr

M

Scott, G.T. and 571439
R. De Voe (1957)
Biol.Bull., Wood's Hole, 112:249-53
The reversible replacement of potassium
by rubidium in Ulva lactuca

Experimental work showing the rate at
which rubidium ion replaces potassium,
the level of such replacement, and the
rate of re-accumulation of potassium.
The disparity in the exchange kinetics
is discussed.

FAO:tl

M

Schwartz, A. (1957) 571437
Copeia, (2):94-107
Variation and natural history of Plethodon
jordani clemsonae Brimley

A study of the amount and kind of
variation, life history, geographic
distribution, and relations of the
species with its adjacent member
P. j. melaventris.

HR:hr

F

Scott, G.T. et al. (1957) 571440
Science, 125(3239):160
Exchange of sodium ion in Ulva lactuca

Results of experiments with Na^{24} on the
exchange of sodium by two different
temperatures and some discussion on
the process of exchange.

FAO tl

M

Scott, W.B. (1957) 571441
Copeia, (2):160-1
Distributional records of fishes in
western Canada

Lists three species of cyprinids from
southwestern Saskatchewan: Hybognathus
hankinsoni, Chrosomus eos and Pfritille
neogaea and the catostomid Pantosteus
jordani.

HR:nr

F

Searle, A.G. (1957) 571444
Malay.Nat.J., 11(3):67-76
An introduction to Malayan jellyfish

Taxonomic account with notes on the life
history and distribution.

GLK:tl

M

Scottish Home Department (1957) 571442
Freshw.Salm.Fish.Res., (15):11 p.
Eighth Annual Report of the Supervisory
Committee for Brown Trout Research 1955-
1956

Covers period 11/55-10/56. Describes
staff, laboratory research (under
headings: fish investigations; bottom
fauna studies; botanical work; chemical
work) and lists publications.

FiB:sjh

F

Séguin, R.L. (1957) 571445
Canad.Fish Cult., 20:29-37
Management, fishing results and growth
of speckled trout (Salvelinus fontinalis)
in Baldwin Pond, Stanstead County, Que.

Describes the stocking and subsequent
results following a poisoning of
undesirable fishes.

FAO:wad

F

Seaman, E.A. (1957) 571443
Progr.Fish Cult., 19(1):47-8
Who wants a biologist? Two years of
private consulting service

Discussion of a new field in the U.S. --
based on the author's own experience
especially in the field of hydrobiology
including pollution and fishery problems.

WAD:wad

F

Selleck, D.M. and C.M. Hart (1957) 571446
Calif.Fish Game, 43:309-16
Calculating the percentage of kill
from sex and age ratios

Development of this theoretical method
originated by G.H. Kolker (1940).

SJH:sjh

F

Seoane Camba, J. (1957) 571447
Invest.pesq., 8:15-28
 Algas superiores de las rías bajas
 gallegas (Higher algae of
 Galicia lochs)

A list of 231 seaweeds identified in
 the most southern lochs of N.W. Spain.
 Previous records have been collected
 together with recent observations.
 35 species are new records.

FAO:glk

M

Setlík, I. (1957) 571450
Biochim.biophys.Acta, 24:434-5
 Periodic phenomena in photosynthesis as
 reflected by oxygen exchange of blue-
 green algae

Demonstration that periodic phenomena
 are encountered in the photosynthetic
 exchange of oxygen. They are related
 with light intensity and with
 temperature, and are observed under
 both aerobic and anaerobic conditions.

FAO:glk

F

Sergeant, D.E. and 571448
 H.D. Fisher (1957)
J.Fish.Res.Bd Canada, 14(1):83-115
 The smaller cetacea of eastern Canadian
 waters

An account is given of the known records,
 distribution and migrations of the
 smaller odontocete whales occurring in
 eastern Canadian waters, with
 measurements of specimens obtained of
 the rarer species. The distribution of
 the abundant pilot whale Globiocephala
melaena (Traill) has been studied in
 most detail.

GLK:glk

M

Seume, F.W. (1957) 571451
Anz.Schädlingsk., 30:25-7
 The rearing of Daphnia magna

A historical review and description of
 modern methods.

Servais, F. (1957) 571449
Résult.sci.Explor.hydrobiol.Tanganika,
 2(3):311 p.
 Etude théorique des oscillations libres
 (seiches) du lac Tanganika
 (Theoretical study of the free
 oscillations in Lake Tanganyika)

Study of longitudinal and transversal
 seiches of L.Tanganyika and L. Geneva
 (including self-seiches, edge-waves and
 bank seiches). Most of the waves
 theories are reproduced in full and
 tested.

Shalowitz, A.L. (1957) 571452
Sci.Mon., N.Y., 84:290-301
 Nautical charting (1807-1957)

:tl

F

FAO:sjh

MF

Shannon, F.A. (1957) 571453
Copeia, (2):145-6
Further comments upon the western range
of Scaphiopus bombifrons

Critical review of original article by
V. Walters, Copeia, 1955, (3):252-3.

HR:efa

F

Shapiro, J. (1957) 571454
Limnol.Oceanogr., 2:161-79
Chemical and biological studies on the
yellow organic acids of lake water

Study of the chemical composition and
optical spectral properties and
biological decomposition of humic
substances in Lower Lisnloy Pond,
Connecticut. The influence of different
concentration of these humic substances
on plankton organisms was tested.

HR:tl

F

Shavit, M. (1957) 571455
Fish.Bull., Haifa, (14):3
(Around the fisheries of Israel). Iw

SJH

MF

Shaw, B.L. and 571456
H.I. Battle (1957)
Canad.J.Res. (Zool.), 35(3):325-47
The gross and microscopic anatomy of
the digestive tract of the oyster
Crassostrea virginica (Gmelin)

The gross and microscopic anatomy of
the digestive tract of Crassostrea
virginica is described. Anatomical
relationships are compared with Ostrea
chilensis, Ostrea edulis, and Gryphoa
angulata.

FAO:hr

M

Shaw, T.I. and 571457
L.H.N. Cooper (1957)
Nature, Lond., 180:250
State of iodine in sea water

Hypothesis on the state of iodine in
sea water as hypiodous acid and
iodine.

GLK:tl

M

Shaw, W.H.R. and 571458
B. Grushkin (1957)
Arch.Biochem., 67:447-52
The toxicity of metal ions to aquatic
organisms

FAO

MF

Sheely, M.J. and 571459
R. Halley (1957)
J.acoust.Soc.Amer., 29:464-9
Measurement of the attenuation of low-
frequency underwater sound

M

Shibuya, S. and S. Ouchi 571462
Nature, Lond., 180:549-50
Isolation of 2-aminoethanesulphinic
acid from a mollusc

Description of the technique of isolating
and identifying the substance from
tissues of Septifer (Mytilisepta)
virgatus (Wiegmann).

GLK:glk

MF

Shelbourne, J.E. (1957) 571460
Fish.Invest., Lond., Ser.2, 21(2):27 p.
The 1951 oyster stock in the rivers
Crouch and Roach, Essex, and the
influence of water currents and scour
on its distribution: with an account of
comparative dredging experiments

Content as per title.

Shimizu, Y. (1957) 571463
Rep.Nankai reg.Fish.Res.Lab., 6:18-24
(Biochemical studies on the growth and
maturation of fish bodies. III. Some
investigations on the vitamin B12
contents of fish bodies). Ni En

Account of investigations on the
relationship between growth and
maturation of fish and vitamin B12
contents of important organs of Auxis
tapeinosoma, Seriola quinqueradiata and
Germo germo.

FAO:efa

MF

FAO:efa

M

Shepard, F.P. (1957) 571461
Sea Frontiers, 3:171-9
Strange canyons on the sea floor

Description of canyons in different
parts of the world and of recent under-
water photographic and other research
providing more accurate description
of them and discussion of the theories
of their origin and significance.

Shimizu, Y. (1957) 571464
Rep.Nankai reg.Fish.Res.Lab., 6:25-8
(Biochemical studies on the growth and
maturation of fish bodies. IV. The
vitamin B2 contents in the livers and
the ovaries of yellowfin tuna, Nothunnus
macropterus (Temminck and Schlegel)).
Ni En

Content as per title.

FAO:tl

M

FAO:efa

M

Shinners, W.W. and 571465
 J.A. Shirley (1957)
 Paper presented at the Thirty-Eighth ..
Annual Meeting, Washington, D.C.,
April 29 - May 2, 1957
 Recent developments in marine
 instruments and observations

Shkorbatov, G.L. (1957) 571468
Zool.Zh., 36(2):230-6
 Ob eksperimental'nykh obosnovaniakh
 akklimatizatsii ryb (Experimental
 basis of fish acclimatization)
 Discussion on the physiological
 functions affecting the acclimatization
 and the influence of rearing conditions
 on the acclimatization of grown fish.

GLK

MF

FAO:tl

F

Shirai, K., M. Saiki 571466
 and S. Ohno (1957)
Bull.Jap.Soc.sci.Fish., 22:651-3
 (Studies on the radioelement in the
 contaminating radioactive fish. III. On
 skipjacks caught at the Pacific Ocean
 in 1956. (Part 2). On the presence of
 Cd^{113m}). Ni En

Shul'ikin, V.V. (1957) 571469
C.R.Acad.Sci.U.R.S.S., 115(5):915-8
 Profil' vetrovykh voln i ego zapis' na
 pridonnykh volnografakh (Wind wave
 profile and its record by bottom-
 wave recorders)

See 571388. Part 2 deals with cadmium
 (Cd^{113m}) distribution.

SJH:sjh

M

FAO

M

Shirkova, A.P. (1957) 571467
Zool.Zh., 36(6):951-3
 O biologicheskoi neodnorodnosti chudskogo
 siga v svyazi s akklimatizatsiei ego v
 drugih vodoemakh (On the biological
 heterogeneity of Coregonus lavaretus
maraeoides Poljakov in connection with
 its introduction into other water
 reservoirs). En

Shul'man, G.E. et al. (1957) 571470
Vop.Ikhtiol., 8:77-80
 Osobennosti gazovogo obmena bychkov
 Azovskogo moria (Neogobius melanostomus
 i N. syrman) v svyazi s usloviyami
 obitaniia (Features of the gaseous
 exchange in the goby of the Azov Sea
 (Neogobius melanostomus and N. syrman)
 in connection with the living conditions)

Account of investigations on the
 biological homogeneity of whitefish shoals
 in Lake Peipus. States that supposition
 found in literature concerning the
 presence of 2 forms is not justified.

Discussion of experimental work on O₂
 consumption, the minimal O₂ concentration
 in the water for which respiratory
 movement is maintained, the character
 and frequency of opercular movement,
 relation of these features and
 anaerobic conditions and H₂S.

FAO:efa

F

FAO:glk

M

Shumway, G. (1957)
Deep-Sea Res., 4(4):250-3
Carnegie Ridge bathymetry

571471

Description of the bathymetry with a bathymetric map of the area.

Siller, W. (1957)
Öst.Fisch., 10(6/7):90-5

571474

Beobachtungen eines Sportanglers über das Verhalten kranker und abnormaler Fische (Observations of a sport angler on the behaviour of sick and abnormal fishes)

Some observations on fishes infected with parasites and fishes with malformation of vertebrae.

GLK:tl

K

FAO:tl

F

Siegrist, M. and
M.C. Grier (1957)
Geological Society of America, 768 p.
Bibliography and index of geology
exclusive of North America - Vol. 20

571472

Contains also references on submarine geology.

Siltamaa, E. and
M. Vanhanen (1957)
Otava, Helsinki 1957, 184 p.
Kalavosiä kohentamaan (Improvement
of fishery waters)

571475

:tl

M

FAO

F

Silas, E.G. (1957)
Copeia, (1):61-2
The Ceylonese cyprinid genus Eustira
Günther considered a synonym of Danio
Hamilton

571473

A brief systematic analysis of characters of two nominal genera and proposition to consider Eustira a synonym of Danio.

Silva, E. de Sousa (1957) 571476
Trab.Miss.Biol.marít., (12-16):109-91
Dinoflagelados do plancton marinho de Angola (Dinoflagellates of the marine plankton of Angola)

A catalogue of more of 100 species with notes on morphological variations, sizes and distribution for many of them. A chart of seasonal distribution with data on salinity and temperature is given.

HR:ofa

F

FAO:hr

M

Sinclair, H.M. (1957) 571477
In "The biology of ageing", by Yapp,
W.B. and G.H. Bourne (Ed.), Symp. Inst.
Biol., (6):101-13
Nutrition and ageing

Lists spp. for which it has been
observed that shortage of food early
in life delays maturity and prolongs
life. Mentions Daphnia, Patella vulgata
and trout.

GLK:sjh

MF

Sivalingam, S. and 571480
J.C. Medcof (1957)
Bull. Dep. Fish., Ceylon, (6):23 p.
General features and productivity of
the Wedge Bank trawl fishery

Description of the physical features
of Wedge Bank, trawling operations,
general features of catch and
variations in catch per unit effort.
A comparison is made of the productivity
of Wedge Bank with that of other fishing
areas.

GLK:tl

M

Sinclair, J. (1957) 571478
Official Rep. House of Commons Debates,
Ottawa, 12 p.
Fish and power

Speech made by Minister of Fisheries on
February 28, 1957, reviewing the
situation in Canada with regard to the
International Salmon Commission and the
construction of new dams.

GLK:sjh

MF

Sjöblom, V. (1957) 571481
FiskTidskr. Finl., 64(3):77-81
Silakan katoamisesta solkämörellä (On
the disappearance of herring from central
Gulf of Bothnia)

Data on growth, age and length of herring,
strength of year-classes and explanation
on the causes of weak yearclasses.

FAO:tl

M

Singer, B. (1957) 571479
London, Secker and Warburg, 232 p.
Living silver - An impression of the
British fishing industry

First novel by a young fisheries biologist,
containing detailed and accurate account
of Scottish marine fishing industries and
methods, and the behaviour and other
biological characteristics of the species
taken.

FAO:sjh

M

Sjöblom, V. (1957) 571482
FiskTidskr. Finl., 64(5):143-5
Silakkaverkon silmäsuuruuden vaikutuksesta
saaliin kokoonpanoon (The influence
of mesh size of herring gill net on the
size composition of catch)

Data on size composition of catch with
nets with different mesh size on the
same fishing ground and time.

FAO:tl

M

Sjöblom, V. (1957) 571483
FiskTidskr.Finl., 64(4):110-3
Turun saariston talvi- ja avovesisilakan
vuoden aikaisista vaelluksista
(Seasonal migrations of the winter and
offshore herring in the archipelago of
Turku)

Preliminary note on the size composition
of catch and strength of year classes.
Notes on the seasonal migration of the
stock.

FAO:tl

M

Slinn, D.J. (1957) 571486
Rep.Mar.biol.Sta.Pt Erin, 69:29-33
Phosphate and oxygen in sea water off
Port Erin during the years 1955 and
1956

Analyses of weekly samples, 1955 and
1956, 3 miles N. 65° W. of Port Erin,
Isle of Man. Incl. temperatures.

FAO:sjh

M

Slater, J.V. (1957) 571484
Biol.Bull.Wood's Hole, 112(3):390-9
Radiocobalt accumulation in Tetrahymena

Experiments were designed to study the
accumulation of cobalt in protozoans
during growth. This study included the
growth phase, the influence of deficient
medium on exchange, the influence of
population density on uptake per animal,
and the effect of ion concentration on
uptake.

FAO:tl

F

Slobodkin, L.B. (1957) 571487
Proc.nat.Acad.Sci., Wash., 43:780-2
A laboratory study of the effect of
removal of newborn animals from a
population

A constant proportion of newborn are
removed from self-regulating populations
of Daphnia; population size and yield
are predictable from simple equations
requiring only knowledge of size of
normal population and one conversion
constant. When adult animals are
removed, destroying simple food
dependence of population, these
equations are no longer applicable.

GLK:sjh

F

Slinn, D.J. (1957) 571485
Nature, Lond., 179:271-2
Eupoecytle abbreviata (Olsen, (1876))
Price, 1942, a monogenetic trematode
new to British waters

Three specimens recorded.

Small, J. (1957) 571488
Baillière, Tindall and Cox, 260 p.
Modern aspects of pH

GLK:jae

M

GLK

MF

Smød, J. (1957) 571489
Ann.biol.Copenhagen, (12):10-1
Monthly anomalies of the surface
temperature in areas of the northern
North Atlantic in 1955

Part of "Distant Northern Seas -
Environment - Hydrography".

GLK

M

Smith, F.G. Walton and 571492
H. Chapin (1957)
West.Fish., 54(6):34-43, 64-6
There's a future for fish farming

A review of salt-water fish farming
with indications of its future
possibilities.

FAO:hr

MF

Smith, F.G. Walton (1957) 571490
Sea Frontiers, 3:162-70
The flying barnacle

Essay on the myth associated with Branta
leucopsis.

FAO:glk

M

Smith, F.G. Walton and 571493
H. Chapin (1957)
West.Fish., 55(1):42-7
There's a future for fish farming

A review of salt-water fish farming
with indications of its future
possibilities.

FAO:hr

MF

Smith, F.G. Walton (1957) 571491
Sea Frontiers, 3:87-93
Sea snakes are real

A popular review of knowledge about the
occurrence and habits of the Hydrophidae.

HR:sjh

M

Smith, J.L.B. (1957) 571494
Ichthyol.Bull., (4):49-69
The fishes of the family Scorpaenidae in
the western Indian Ocean - Part I. The
sub-family Scorpaenidae

Description of the sub-family, genera and
species for which analytical keys are
given. As far as possible photographs
of typical specimens are reproduced.

FAO:hr

M

Smith, J.L.B. (1957) 571495
Ichthyol.Bull., (5):75-87

The fishes of the family Scorpaenidae in the western Indian Ocean - Part II. The subfamilies Pteroinae, Apistinae, Setarchinae and Sebastinae

Describes the four subfamilies and their respective genera and species for which identification keys are given.

FAO:hr

M

Smith, J.L.B. (1957) 571498
Ichthyol.Bull., (6):96 p.

Sharks of the genus Isurus Rafinesque, 1810

Gives a key to the genera of the family Isuridae, describes the genus Isurus and its species for which a key is also given.

FAO:hr

M

Smith, J.L.B. (1957) 571496
Ichthyol.Bull., (8):117-20

The labrid fishes of the subgenus Julis Cuvier, 1814 (in Coris Lacépède, 1802) from South and East Africa

Key to the species and their description.

FAO:hr

M

Smith, J.L.B. (1957) 571499
S.Afr.J.Sci., 53(14):353-9

A preliminary survey of the Scylliogaloid dogfishes of South Africa

A preliminary survey which shows five endemic species Scylliogaleus queketti, Mustelus natalensis, M. nigropunctatus, M. mogalopterus, M. palumbos n. sp., and one from the Indo-Pacific, Mustelus manazo, to be present in South Africa.

FAO:hr

M

Smith, J.L.B. (1957) 571497
Ichthyol.Bull., (7):99-114

List of the fishes of the family Labridae in the Western Indian Ocean with new records and five new species

Key to genera; illustrations (some colored) of selected spp.; lists spp. under each genus, with synonyms and distributional notes; taxonomic description of type species; bibliography of original descriptions; list of doubtful records; index of generic and trivial names.

FAO:sjl

M

Smith, M.W. (1957) 571500
Canad.Fish Cult., 20:1-6

Comparative survival and growth of tagged and untagged brook trout

Describes effect of jaw tags during both summer and winter on Salvelinus fontinalis held in experimental ponds.

FAO:wad

F

Smith, M.W. (1957) 571501
Canad.Fish.Cult., 20:39-44
Loa's hydrostatic tag on brook trout and Atlantic salmon smolts

Experiments with Salvolinus fontinalis and Salmo salar at Ellerslie Brook, Prince Edward Island, Canada, including a comparison with results obtained using jaw tags on the trout.

FAO:wad

F

Smith, S.H. (1957) 571504
J.Fish.Res.Bd Can., 14:599-604
Evolution and distribution of the coregonids

A discussion of knowledge on the morphological and physiological plasticity of this group.

GLK:glk

F

Smith, R.T. and 571502
E. Quistorff (1957)
Fish.Res.Pap.Wash.Dep.Fish., 2(1):73-6
Survival capacity of spermatozoa of the chinook salmon and steelhead trout

Viability of stored sperm of Oncorhynchus tshawytscha and Salmo gairdnerii

FAO:sjh

MF

Smith, S.H. (1957) 571505
Fish.Bull., U.S., (109):87-138
Life history of lake herring of Green Bay, Lake Michigan

Account of investigations of the biology of Leucichthys artedi (Le Sueur), with special reference to age composition; growth-length-weight relation; reproduction and sex composition, and distribution and movements.

FAO:efa

F

Smith, S.B. (1957) 571503
Canad.Fish.Cult., 20:7-12
Survival and growth of wild and hatchery rainbow trout (Salmo gairdnerii) in Corbett Lake, British Columbia

Describes a marking experiment using wild stock (reared in natural ponds) and a stock with complete hatchery conditioning.

FAO:wad

F

Smith, W.C. (1957) 571506
Rep.Mar.biol.Sta.Pt Erin., 69:21-8
Gonad condition, age and size of Manx herrings, 1945-53, and comparison with earlier years

Records of Clupea harengus samples, for data 1945-53 (for earlier years see same author (1948); for later years Bowers, A.B. (1955, 1956, 1957)).

FAO:sjh

M

Smogorzhevskii, L.A. (1957) 571507
Zool.Zh., 36(6):953-4
Materialy k voprosu o znachenii
chernozoboi gagary (Gavia arctica) v
rybnom khoziaistve (Contribution to
the role of Gavia arctica L. in
fisheries management)

Analysis of the stomach and oesophagus
contents of 67 birds taken in the
Chernigov, Kiev and Cherkassk districts
of the UkrSSR in September-November
1951-1955.

FAO:glk

F

Snieszko, S.F. (1957) 571510
Progr.Fish Cult., 19(2):81-4
Use of antibiotics in the diet of
salmonid fishes

A summary in tabular form of the
effects of enriching the diet of fishes
with antibiotics based upon: Müller,
Wolfgang (1956), "Über die Perspektiven
der Antibiotika-Verfütterung in der
Teichwirtschaft." Deutsche Fischerei-
Zeitung, 3(4):110-5; and a compilation
by the author.

WAD:wad

F

Smyly, W.J.P. (1957) 571508
Hydrobiologia, 11(1):59-72
Distribution and seasonal abundance of
Entomostraca in moorland ponds near
Windermere

Methods and results of a study, 1951-53,
made in open waters and weed beds.

FAO:wad

F

Snodgrass, F. and 571511
W.H. Munk (1957)
Paper presented at the Thirty-Eighth
Annual Meeting, Washington, D.C.,
April 29 - May 2, 1957

Off-shore recording of ocean waves in
the band 1 to 100 cycles per kilosecond

M

Smyly, W.J.P. (1957) 571509
Proc.zool.Soc.Lond., 128(3):431-53
The life-history of the bullhead or
millers' thumb (Cottus goiio L.)

Distribution; sampling methods; sex
identification; behaviour and habits;
reproduction; growth in length and
weight; feeding and food; parasites
and predators; in R. Brathay and
L. Windermere, England.

FiB:glk

F

Society of Chemical Industry. 571512
London (1957)
New York, Macmillan, 157 p.
Disposal of industrial waste materials.
Papers read at the Conference at
Sheffield University, 17th-19th April,
1956 with the discussions that followed

MF

Solomon, A.D. (1957) 571513
Conn.Fish.Rev., 19(12):47-8
West coast albacore fishermen adapt
unique method for relaying information
by ship's radio

FAO

M

Sorokin, C. (1957) 571516
Physiol.Plant., 10(1):659-66
Changes in photosynthetic activity in
the course of cell development in
Chlorella

Cells of the high-temperature strain
of C. pyrenoidosa were synchronized
in their development by intermittent
light: dark illumination. The rate of
photosynthesis, as it changes in the
course of cell development, was studied
with the manometric technique and
compared with the rate of the increase
in cell volume, dry weight, chlorophyll
content, and respiratory activity.

FAO:tl

F

Solom, P. (1957) 571514
Konkylion, 2(1):9-13
Klimaendringen og fiskot (Climatic
changes and fisheries)

Popular description of the influence of
climatic changes in North Atlantic on
fisheries, with special reference to
the cod fishery in West Greenland waters.

FAO:tl

M

Soule, F.M. and 571517
J.E. Murray (1957)
Bull.U.S.Cst Guard, (41):59-114
Physical oceanography of the Grand Banks
and the Labrador Sea in 1955

Report 1955 cruises of USCGC EVERGREEN -
Station lists and tabulated data-
temperature, salinity, phosphorus;
charts and profile.

:sjh

M

Solomon, M.E. (1957) 571515
Ann.Rev.Entomol., 2:121-42
Dynamics of insect populations

A general review which considers
processes common to all animal populations,
with particular reference to the density-
dependence of controlling factors.

GLK:sjh

F

Southgate, B.A. (1957) 571518
Challenger Soc., 3(9):31
The Thames estuary and its pollution -
I. An outline of the problem

Abstr. of paper read at Joint Meeting
of the Water Pollution Research
Laboratory, Stevenage; and Zoological
Society of London, Regent's Park,
London. 24th and 25th January, 1957.
Notes on investigations to predict
quantitative effects of making
alterations in some of the factors
influencing pollution.

SJH:efa

MF

Southward, E.C. (1957) 571519
J.Mar.biol.Ass.U.K., 36(1):49-75

The distribution of polychaeta in off-shore deposits in the Irish Sea

It was found that, although some species were widely distributed, each bottom deposit had a typical fauna, and that where the deposits graded into one another the polychaete fauna was also mixed. The distribution of each species appears to depend mainly on its mode of life and feeding habits.

HR:hr

M

Spear, H.S. and 571522
J.B. Glude (1957)

Fish.Bull., U.S., 57(114):279-92
Effects of environment and heredity on growth of the soft clam (Mya arenaria)

Reports results of transplantation experiments between various parts of Sagadahoc Bay, Georgetown Island, Maine, U.S.A., showing dominant effect of environment in growth of clams initially about 2-3 cm long for one year.

SJH:sjh

M

Sparks, A.K. (1957) 571520
Bull.Mar.Sci.Gulf Caribb., 7(3):255-65

Some digenetic trematodes of marine fishes of the Bahama Islands

Twenty-three species of trematodes were identified, 16 new host records were established, and a new record for the Atlantic Ocean of a species described from the Pacific Coast of California was cited.

FAO:glk

M

Spencer, C.P. (1957) 571523
Challenger Soc., 3(9):21

The oxidation of ammonia in the sea

Abstr. of paper read at Joint Meeting of the University College of North Wales, Bangor 2nd, 3rd and 4th July, 1956. Reports comparison of pattern of ammonia oxidation in open ocean and inshore water masses.

SJH:efa

M

Sparks, A.K. and 571521
J.G. Mackin (1957)
Tox.J.Sci., 9:475-6

A larval trypanorhynchid cestode from commercial shrimp

A note on occurrence of Eutetrarhynchus in Peneus setiferus (L.) from Louisiana waters, 1957, with comment on previous observations of cestodes of this family in marine animals.

FAO:sjh

M

Spencer, C.P. (1957) 571524
J.gen.Microbiol. (Symp.on plankton), 16:282-5

Utilisation of trace elements by marine unicellular algae

Description of some recent results obtained from the investigation of ethylenediamine tetra-acetic acid on the growth of marine unicellular algae and possible implications of the results on various aspects of trace elements utilization.

FiB:tl

M

Spencer, R.S. (Comp.) (1957) 571525
Oceanogr.Sta.List, 29:93 p.
Estuarine hydrological investigations in
eastern and south-western Australia, 1955
Tabulated oceanographic data.

GLK:tl

MF

Spencer, R.S. (Comp.) (1957) 571526
Oceanogr.Sta.List, 32:170 p.
Estuarine hydrological investigations
in eastern and south-western Australia,
1956

Tabulated data: Cl^o/oo, O₂, pH, PO₄-P
and NO₃-N.

GLK:tl

M

Sponser, E. (1957) 571527
Research, Lond., 10(3):79
River pollution

Editorial comment on "The use of town's
waste in agriculture" - Report of the
Natural Resources (Technical) Committee
London: H.M.S.O., 1954.

FAO:sjh

F

Springer, S. (1957) 571528
Ecology, 38:166-71
Some observations on the behavior of
schools of fishes in the Gulf of Mexico
and adjacent waters

Describes the circumstances and
characteristics of schooling behavior
of Jonkinsia lamprotaenia Goode,
Opisthonema oglinum (Le Sueur),
Decaplorus punctatus (Agassiz), Sardinella
anchovia (C. and V.), Mugil cephalus Linn.,
Rhincodon typus, Thunnus atlanticus
(Lesson.), and Stenella plagiodon.

FAO:glk

M

Springer, S. and 571529
J.R. Thompson (1957)
Copeia, (2):160
Night sharks, Hypoprion, from the Gulf of
Mexico and the Straits of Florida

Reports and describes Hypoprion signatus
(Poey), the first of the genus and
sp. recorded.

HR:efa

M

Spurway, H. (1957) 571530
Nature, Lond., 180:1248-51
Hermaphroditism with self-fertilization,
and the monthly extrusion of unfertilized
eggs, in the viviparous fish Lobistes
reticulatus

Account of observations on two independent
phenomena: 1) functional hermaphroditism
resulting in self-fertilization in a fish
and 18 of her descendants; 2) extrusions
of groups of unfertilized oocytes into
surrounding water.

GLK:efa

F

Squires, H.J. (1957) 571531
Canad.J.Res. (Zool.), 35(3):463-94
Decapod Crustacea of the CALANUS
expeditions in Ungava Bay, 1947 to 1950

Systematics of each species is treated under occurrence in Ungava Bay, world distribution and taxonomy. Maturities with respect to size when first mature, egg size, and time of hatching and spawning are discussed.

FAO:lr

M

Squires, H.J. (1957) 571532
Progr.Rep.Atl.Cst Sta., (67):31-3
Cod eggs and herring larvae in late September an indication of fall spawning in the Gulf of St. Lawrence

Report of hydrographic cruise of CNAV
SACKVILLE, 18/9 - 18/10/1955.

FAO:sjh

M

Sreenivasan, A. (1957) 571533
Curr.Sci., 26(12):392-3
Nitrate-reducing bacteria from marine environment

Notes on the abundance of nitrate-reducing species among other marine bacteria.

FAO:tl

M

Starr, T.J. and M.E. Jones (1957) 571534
Limnol.Oceanogr., 2(1):33-6
The effect of copper on the growth of bacteria isolated from marine environments

Reports the effect of increasing copper concentrations on the growth of 145 different cultures of marine bacteria and compares this with effect of this substance on Gymnodinium brevis with a view to possible use of this substance in controlling G. brevis.

HR:glk

M

Stauffer, R.C. (1957) 571535
Quart.Rev.Biol., 32(2):138-44
Haeckel, Darwin and ecology

Includes account of controversing between E. Haeckel and V. Hensen concerning marine plankton sampling and distribution.

FAO:sjh

M

Stazione Zoologica di Napoli (1957) 571536
Fauna e Flora del Golfo di Napoli, 580 p.
Uova, larve e stadi giovanili di teleostei (Eggs, larvae and juvenile stages of teleosts)

<p>Steele, J.H. (1957) 571537 <u>J.Cons.int.Explor.Mer.</u>, 22(2):152-62 The role of lateral eddy diffusion in the northern North Sea</p> <p>Interpretation of hydrography with reference to seasonal events, the Baltic outflow and turbulence spectrum.</p>	<p>Steinitz, H. and 571540 A. Ben-Tuvia (1957) <u>Bull.Res.Coun.Israel</u>, 6B(3-4):176-88 The hybrid of <u>Barbus longiceps</u> C.V. and <u>Varicorhinus damscinus</u> C.V. (Cyprinidae, Teleostei)</p> <p>Comparison of typical specimens of those spp. with the intermediate form found in Israeli lakes, verified by artificial cross fertilization.</p>
<p>FiB:sjh M</p>	<p>FAO:sjh F</p>
<p>Steemann Nielsen, E. (1957) 571538 <u>Physiol.Plant.</u>, 10(5):1009-20 The chlorophyll content and the light utilization in communities of plankton algae and terrestrial higher plants</p> <p>Theoretical comparison of the maximum rates of production per surface area in the aquatic and terrestrial plant communities, with emphasis on the questions of light utilization.</p>	<p>Stephens, G.C. (1957) 571541 <u>Physiol.Zoöl.</u>, 30(1):55-69 Influence of temperature fluctuations on the diurnal melanophore rhythm of the fiddler crab <u>Uca</u></p> <p>Results of experiments showing that the timing of the diurnal melanophore rhythm of <u>U. pugnax</u> can be shifted with respect to the solar day-night cycle by exposing animals maintained in darkness to low temperatures; the conditions required in this temperature change with respect to level and duration are reported.</p>
<p>FAO:tl MF</p>	<p>FAO:glk M</p>
<p>Stefan, G. et al. (1957) 571539 <u>Bul.Inst.Cerc.piscic.Roman.</u>, 16(2):46-52 Reproducerea artificiala a cleanului si mrenei la Manastur-Cluj (Artificial propagation of <u>Leuciscus cephalus</u> and <u>Barbus barbus</u> at Manastur-Cluj). Ru Fr</p> <p>At a time in captivity the sexual products deteriorate. Injections of hypophysial extract are only effective in the <u>Leuciscus</u>. Incubation of eggs; supplementary feeding; infestation with <u>Saprolegnia</u>.</p>	<p>Stephenson, W. and 571542 E.M. Grant (1957) <u>Ichthyol.Notes</u>, 1:73-116 Experiments upon impounded callop or yellowbelly (<u>Plectroplites ambiguus</u> (Richardson)) at Somerset Dam</p> <p>Description of the ponds and the methods used in an attempt to determine its suitability for stocking or for pond culture. Analysis of appetite preferences; determination of saturation feeding and analysis of the factors affecting it.</p>
<p>FAO:sjh F</p>	<p>GLK:glk F</p>

Stern, T. (1957) 571543
Fish. News, (2302):6
Polluted mussels simply cleansed

Gives brief description of a simple
system of mussel purification in tanks.

FAO:efa

M

Stiles, W. (1957) 571546
Sci. Progr., 45:297-307
Recent advances in science: plant
physiology

MF

Stickel, L.F. (1957) 571544
Wash., U.S. Govt Print. Off., 321 p.
Wildlife abstracts, 1952-55. A
bibliography and index of the abstracts
of Wildlife review, numbers 67-83

F

Stokke, K. (1957) 571547
Nytt Mag. Bot., 5:101-11
The red alga Gracilaria verrucosa in
Norway

Distribution, ecology, observations on
morphology and reproduction.

FAO:tl

M

Stickney, A.P. and 571545
L.D. Stringer (1957)
Ecology, 38:111-22
A study of the invertebrate bottom
fauna of Greenwich Bay, Rhode Island

Describes the area. Recognizes and
describes principal communities and
discusses their characteristics with
respect to the distribution and
production of Venus.

FAO:glk

M

Stommel, H. (1957) 571548
Bull. Mar. Sci. Gulf Caribb., 7(3):252-4
Florida Straits transports, 1952-1956

Table of 24-hour averages of Florida
Straits transports in millions of cubic
metres per second, measured over four
years by continuous measurements (over
week-ends) of the potential difference
between Key West and Havana.

FAO:glk

M

Stommel, H. (1957) 571549
Deep-Sea Res., 4(3):149-84
A survey of ocean current theory

Description and comparison of different theories. Isolation of the basic physical ideas in the theories and their diagrammatic presentation.

GLK:tl

M

Strahan, R. (1957) 571552
Copeia, (2):146-7
The effect of salinity on the survival of larvae of Bufo melanostictus Schneider

Describes experiment on the extent of ability of sp. normally found in fresh water to withstand brackish water.

HR:efa

F

Stommel, H. and 571550
G. Veronis (1957)
Tellus, 9(3):401-7
Steady convective motion in a horizontal layer of fluid heated uniformly from above and cooled nonuniformly from below

A gravitationally stable fluid layer is heated nonuniformly (sinusoidally) at the bottom (or top) and a thermal convection regime is established. Examples are worked out for cases without rotation, with uniform rotation, and with nonuniform rotation (betaplane).

FAO:tl

M

Strakhov, V.A. (1957) 571553
Fish.Ind., Moscow, 33(1):87-92
Ispol'zovanie elektricheskikh polei v rybozagradytel'nykh ustroystvakh (Using electric fields in fish separation arrangements)

FAC

MF

Storr, J.F. (1957) 571551
Educ.Ser.Fla Bd Conserv., (9):29 p.
The sponge industry of Florida

Revision of original 1949 publication under same title. Summary of biology of porifera; fishing method; commercial production and value; history of industry effect of oceanographic factors; potential cultivation; marketing problems; research programmes.

FAO:sjh

M

Strasburg, D.W. (1957) 571554
Copeia, (1):58-60
Notes on the respiration of small Remora remora

Account of observation on the respiratory behaviour of the sp.

HR:efa

M

Strasburg, D.W. and 571555
 R.W. Hiatt (1957)
Pacif.Sci., 11(1):133-4
 Sexual dimorphism in the labrid fish
 genus Gomphosus

Description of specimens and discussion
 of the taxonomic significance of the
 finding.

GLK:glk

M

Strøm, K. (1957) 571558
Nature, Lond., 180:982-3
 A lake with trapped sea-water?

Describes studies in Lake Tokke, Norway,
 leading to the theory that it contains
 sea water trapped there six thousand
 years ago.

GLK:wad

MF

Stratton, G.B. (Ed.) (1957) 571556
Zoo Life, 91
 The zoological record

Stuart, L.C. (1957) 571559
Copeia, (2):89-94
 Herpetofaunal dispersal routes through
 northern Central America

A preliminary discussion of dispersal
 routes of amphibians and reptiles.

MF

HR:hr

F

Strelkovsky, V.I. (1957) 571557
C.R.Acad.Sci.U.R.S.S., 115(2):403-6
 O formirovanií svyazi mezhdu gioidnoi i
 cheliustnoi dugami v ontogeneze osetra
 (Acipenser güldenstädtii) On the
 formation of a link between the hyoid and
 the mandibular arches in the ontogeny of
Acipenser güldenstädtii

Suau, P. and F. Vives (1957) 571560
Invest.pesq., 8:121-6
 Sobre la presencia de Gastrosaccus
sanctus (Van Beneden) en la desemboca-
 dura del río Ebro (On the presence
 of Gastrosaccus sanctus (Van Beneden)
 in the estuary of the river Ebro)

Report of the occurrence with notes
 and illustrations on the morphology
 of the species.

FAO

F

FAO:hr

M

Sugama, K. (1957) 571561
Bull.Hokkaido reg.Fish.Res.Lab., (16):
1-12

Analysis of population of the saury
(Cololabis saira Brevoort) on the basis
of character of the otolith - I.

Two types of otolith zonation are
distinguished and related to position
of capture and time of hatching.

FAO:sjh

II

Sundstrom, G.T. (1957) 571564
Circ.U.S.Fish Wildl.Serv., (48):48 p.
Commercial fishing vessels and gear

Gives for each vessel and gear a
specification, line drawing, map of main
area of fishing operation, and various
information such as speed, number in
crew, lengths of trips, and convertibility
of vessel to other types of gear.

FAO:sjh

MF

Sundius, S. (1957) 571562
Svensk FiskTidskr., 66(10):155-9
Atomkraften och våra vattendrag
(Nuclear power and our rivers)

Review of the development of the nuclear
power and the necessity to reserve some
rivers in natural conditions.

FAO:tl

F

Sutcliffe, W.H. (1957) 571565
Paper presented at the Inter-Island
Marine Biological Conference, March 31-
April 6, 1957

Bermuda biological station

A list of the laboratories in the islands
of the Caribbean with information on their
physical facilities, staff, etc.
Abstract in "Report by the Institute of
Marine Biology, University of Puerto
Rico".

HR:hr

M

Sundnes, G. (1957) 571563
J.Cons.int.Explor.Mer., 22(2):191-5
On the transport of live cod and coalfish

Well-boat experiments with Gadus calla-
rias L. and Gadus virens L. show the
importance of oxygen supply just after
loading.

GLK:sjh

M

Sutcliffe, W.H., Jr. (1957) 571566
Limnol.Oceanogr., 2:295-6

An improved method for the determination
of preserved plankton volumes

Description of a colorimetric method
for determination of a quantity of
collected plankton.

HR:tl

M

Sutherland, K.L. (1957) 571567
Research, Lond., 10:198-204
Economic methods of controlling
evaporation of water

Review of the work on monomolecular
films for reducing evaporation from
water surfaces with special reference
to the use of hexadecanol which is
nontoxic to animals and which does not
affect oxygen transfer in water adversely.

FAO:glk

MF

Sutherland, N.S. (1957) 571568
Nature, Lond., 179:1310
Shape discrimination in the octopus

Part of a debate on neurophysiological
mechanisms.

GLK:glk

M

Sutherland, N.S. (1957) 571569
Nature, Lond., 179:11-3
Visual discrimination of orientation and
shape by the octopus

Account of aquarium experiments using
Octopus vulgaris, by conditioned reflex
method.

GLK:sjh

M

Sutton, G.H., H. Berckhemer 571570
and J.E. Nafe (1957)
Paper presented at the Thirty-Eighth
Annual Meeting, Washington, D.C.,
April 29 - May 2, 1957
Physical aspects of deep-sea sediments

M

Suzuki, A. and T. Morio (1957) 571571
Rep.Nankai reg.Fish.Res.Lab., 6:29-40
(Biochemical studies on the growth and
maturation of fish bodies. V. The
relation between the maturation of
"Marusoda", Auxis tapeinosoma (Bleeker)
and the contents of iron, copper and
zinc in their body). Ni En

Content as per title.

FAO:efa

M

Suzuki, A. and T. Morio (1957) 571572
Rep.Nankai reg.Fish.Res.Lab., 6:41-6
(Biochemical studies on the growth and
maturation of fish bodies. VI. The
contents of iron, copper and zinc of the
ovaries of yellowfin tuna). Ni En

Content as per title.

FAO:efa

M

Svätokrizna, G. and
R. Jacko (1957)
Biológia, 12(11):828-42
Saprobíologický výskum Malého Dunaja
(Saprobíological investigation of the
Little Danube)

571573

Investigations of the degree of
pollution in the river using Kolkwich
saprobý-system of the animals and
plants as indicator.

FAO:tl

F

Swallow, J.C. and 571576

L.V. Worthington (1957)
Nature, Lond., 179:1183-4
Measurements of deep currents in the
western North Atlantic

Data on deep currents obtained by
measurements with neutrally buoyant
floats.

GLK:tl

M

Swain, A. (1957) 571574
Paper presented at the Symposium of the
British Association meeting in Dublin,
Sect.D (Zool.), 10/9/57

Factors affecting the downstream
migration of salmon and sea trout

MF

Swan, M.A. (1957) 571577
Scot.Nat., 69:67-70
Specimens of char from Shetland and the
Faroe

The Shetland Salvelinus gracillimus in
the Loch of Gairlsta was believed extinct,
but is thriving. Its title to specific
rank is questionable.

:jae

F

Swallow, J.C. (1957) 571575
Deep-Sea Res., 4:93-104
Some further deep current measurements
using neutrally-buoyant floats

Nine more observations have been made
and currents ranging from 22 to 0.8
cm/sec have been measured, at depths
between 340 and 2,900 metres.

FAO:glk

M

Swedmark, B. and 571578
G. Tessier (1957)
C.R.Acad.Sci., Paris, 244:501-4
(Organisation and development of Halammohydra (Hydrozoa)). Fr

FAO

M

Sweeney, T.R. and T.R. Price (1957) 571579
Rep.NRL Progr., April 1957, 59 p.
Weathering of creosote related to
marine borer control

The relationship between chemical composition of creosote and its ability to protect wood against marine borers has been studied by a method which accelerates the weathering of the treated wood.

FAO:tl

M

Sykes, J.E. (1957) 571580
Res.Rep.U.S.Fish Wildl.Serv., (46):25 p.
Past and present Delaware River shad fishery and considerations for its future

Part of a study begun in 1950 to supply Atlantic States Marine Fisheries Commission with information relating to rehabilitation of Alosa sapidissima runs of the Atlantic coast. Probable effects of pollution and dam construction on the declining fishery.

FAO:sjh

MF

Sykes, J.H.M. (1957) 571581
Discovery, 18(2):51-5
Energy from the sea

Discussion on the increasing demands for power and the future possibilities to meet this demand. Description of French plans and work on tidal power.

FAO:tl

M

Sysoev, N.N. and V.G. Volkov (1957) 571582
Trud.Inst.Okeanol., 24:173
(Manual of the techniques of electro-magnetic measurement of sea currents velocities under way). Ru

M

Szabo, T. (1957) 571583
C.R.Acad.Sci., Paris, 244:1265-7
Un centre bulbaire particulier chez deux types différents de poissons électriques de la famille des mormyrides (Special bulbous centre in two different types of electric fishes of the family Mormyridae)

Ill. note on brain anatomy of Gymnarchus niloticus and Gnathonemus senegalensis elongatus.

FAO:sjh

F

Tabata, S. (1957) 571584
Trans.Amer.geophys.Un., 38:191-7
Classification of daily sea-water data

A method is presented for classifying daily observations of sea-water temperature and salinity at five light stations along the coast of British Columbia. Examples of the use of this classification are also shown.

TL:tl

M

Tabata, S. and G.L. Pickard(1957) 571585
J.Fish.Res.Bd Can., 14:487-520
The physical oceanography of Bute Inlet,
British Columbia

Distribution of salinity, temperature
and oxygen has been examined on the
basis of 12 oceanographic surveys from
August 1950 to July 1953. Salinity
structures of the shallow waters during
the various seasons are classified.
The role of insolation and of cold run-
off water as factors influencing the
fluctuation in sea temperature is
discussed.

GLK:glk

M

Taguchi, K. (1957) 571586
Bull.Jap.Soc.sci.Fish., 22(9):511-4
(The seasonal variation of the good
fishing area of salmon and the movements
of water masses in the waters of western
North Pacific - I. Distribution and
movement of water masses). Ni En

Results of exploratory fishing and
hydrological observations by 14 research
vessels of Nichiro Fisheries Co.
corroborate previous reports and
indicate some changes.

SJH:tjj

M

Taguchi, K. (1957) 571587
Bull.Jap.Soc.sci.Fish., 22(9):515-21
(The seasonal variation of the good
fishing area of salmon and the movements
of the water masses in the waters of
western North Pacific - II. The
distribution and migration of salmon
population in offshore waters). Ni
En

Analyses catches of 339 gillnet-boats
during the 1955 season.

SJH:tjj

M

Taguchi, K. (1957) 571588
Bull.Jap.Soc.sci.Fish., 22:609-17
(The seasonal variation of the good
fishing area of salmon and the
movements of water masses in the waters
of western North Pacific - III.
Relation between the distribution of
salmon population and oceanographical
condition mainly in the southern
waters of 48°N. Lat.). Ni En

Describes oceanographic studies made
since 1934, and results of exploratory
fishing by ten research vessels in 1956;
relation of distribution of salmon of
Asian origin to Oyashio and Kuroshio
currents.

SJH:sjh

MF

Tait, J.B. (1957) 571589
Proc.roy.Soc.Edinb., 64(18):239-89
Recent oceanographical investigations
in the Faroe-Shotland Channel

The research reveals very large scale
seasonal and long-term variations in
the north-eastward volume-transport of
oceanic water, suggests the existence
on occasions of what appear to be
horizontal tortional currents within
the oceanic water-mass, and demonstrates
(a) the intrusion of Gulf of Gibraltar
(extra-Mediterranean) water into this
mass over a period of years, (b) the
formation of heavy oceanic water and
(c) of a sub-oceanic current.

FiB:glk

M

Takagi, K. (1957) 571590
J.Tokyo Univ.Fish., 43(1):97-126
Descriptions of some new gobioid fishes
of Japan, with a proposition on the
sensory line system as a taxonomic
character

Ill. descriptions of n. spp. Amblyeleotis
japonicus, Otenogobius dotui, Callo-
gobius shunkan, Stigmatogobius minutus,
Palcatogobius uchidai (gen. nov.) and
Chaenogobius scrobiculatus.

FAO:sjh

M

Tal, S. (1957) 571591
Bamidgeh, 9(1):3-6
Actual problems in carp culture

Fish food, drop in yield and storage
and other marketing problems are
discussed.

WAD:tjj

F

Talling, J.F. (1957) 571594
Hydrobiologia, 11(1):73-89
The longitudinal succession of water
characteristics in the White Nile

Describes the physical and chemical
successional changes, including some
seasonal differences, their causes
and their effect on the biota.

FAO:wad

F

Tal, S. (1957) 571592
Bamidgeh, 9:21-6
Reasons for the pond yield decrease
during 1956 and means of preventing
re-occurrence

An analysis of the distribution of and
reasons for decreases in total yield as
compared with previous years, with
suggestions for future improvements.

FAO:sjh

F

Talling, J.F. (1957) 571595
Limnol.Oceanogr., 2:213-21
Some observations on the stratification
of Lake Victoria

Studies of this tropical African lake in
1956 are described and compared with
previous ones with reference to
temperature, oxygen, the vortical
distribution of planktonic algae and
its relation to the photosynthetic zone.

HR:wad

F

Talbot, F.F. and 571593
B.S. Newell (1957)
E.Afr.agric.J., 22(3):118-21
A preliminary note on the breeding and
growth of Tilapia in marine fish ponds
on Zanzibar Island

Initial experiment in the stocking of
marine fish ponds, operated by the East
African Marine Fisheries Research
Organization, with a species of wild
Tilapia closely related to T. mossambica
and T. pangani. Description of the
experiment. This species of T. shows
remarkable adaptation to environment.
There has been direct competition with
Channa channos for food.

tsj

F

Talling, J.F. (1957) 571596
New Phytol., 56(2):133-49
The phytoplankton population as a compound
photosynthetic system

Influence of various environmental factors
on the photosynthesis is described. A
mathematical model, describing the general
case of integral photosynthesis in the
water column, is attempted. Its application
to ecological situations is illustrated
by examples relating to the growth of
Asterionella in Lake Windermere.

FAO:tl

IF

Talling, J.F. (1957) 571597
New Phytol., 56:29-50
 Photosynthetic characteristics of some
 freshwater plankton diatoms in relation
 to underwater radiation

I. Of natural and cultured populations
 of diatom Asterionella formosa
 principally from English lakes.

II. Effects of temperature and light
 intensity. III. Of other planktonic
 diatoms - Fragilaria crotonensis
 (cultured population) and Melosira
italica subsp. subarctica (natural
 population).

FiB:tl

F

Tamiya, H. (1957) 571600
Annu.Rev.Pl.Physiol., 8:309-34
 Mass culture of algae

F

Talling, J.F. (1957) 571598
Physiol.Plant., 10(1):215-23
 The growth of two plankton diatoms in
 mixed cultures

The growth of two freshwater plankton
 diatoms, Asterionella formosa and
Fragilaria crotonensis, is described
 from mixed cultures and in media
 containing culture filtrates.

FAO:tl

F

Tamura, T. (1957) 571601
Bull.Jap.Soc.sci.Fish., 22(9):536-57
 A study of visual perception in fish,
 especially on resolving power and
 accommodation

Discusses power of lens, dioptric
 accommodation and retinal capacity in
 27 species, comparing their visual
 fields in terms of binocular angle,
 visual axis and topographical
 differences in cone density.

SJH:tjj

M

Tambs-Lyche, H. (1957) 571599
Vop.Ikhtiolog., 8:19-24
 Razvitie morskikh rybolovnykh
 issledovaniy v Norvegii (The
 development of Marine Fisheries Research
 in Norway)

Brief general review of the history of
 Norwegian fisheries research with
 reference to the work of G.O. Sars,
 H. Hansen, J. Hjort and others.

FAO:glk

M

Tamura, T., G. Mitarai 571602
 and Y. Sugita (1957)
Bull.Jap.Soc.sci.Fish., 23:86-91
 The lowest intensity of illumination to
 produce the maximum cone potential in
 the fish retina and its ecological
 meaning

Comparative experimental study of
Sparus arios, Cyprinus carpio and
Latolabrax japonicus.

SJH:sjh

MF

Tanaka, K. (1957) 571603
Bull.Jap.Soc.sci.Fish., 23(4):202-5
Observations on the distribution of
Conchocelis-phase of Porphyra tenera
Kjellman in the oyster-shell

Tank experiments with shells of Ostrea
denselamellosa.

SJH:sjh

M

Taylor, G.N., L.S. Cole 571606
and W.F. Sigler (1957)
J.Wildlife Mgmt, 21:201-13
Galvanotaxic response of fish to
pulsating direct current

Summary of an investigation of advantage
and disadvantage of some power forms,
especially that of pulsed direct current,
in capturing live fish especially
Salmo gairdneri but also Cyprinus,
Ictalurus, Coregonus and Catostomus.

FAO:sjh

F

Taniguchi, T. (1957) 571604
Bull.Jap.Soc.sci.Fish., 22(12):727-9
(On the resistance of various cod ends
fixed in a stream - IV). Ni En

The hydrodynamic resistance of pyramid
type cod ends with different total areas
of webbing was measured experimentally.
The results were compared with
theoretical values.

SJH:sjh

MF

Taylor, G.T. and 571607
R.J. LeBrasseur (1957)
Progr.Rep.Pacif.Cst Stas, (109):9-11
Distribution, age and food of steel-
head trout Salmo gairdneri caught in
the northeast Pacific Ocean, 1956

Length and age distributions; stomach
contents.

GLK:sjh

MF

Tanonaka, G.K. (1957) 571605
Copeia, (1):53-4
The occurrence of the squaretail, Tetra-
gonurus cuvieri, on the high-seas south
of the Aleutian Islands

Reports first record of this sp. from
high seas of North Pacific.

HR:cfa

M

Taylor, W.R. (1957) 571608
Sci.Ser.Univ.Michigan Stud., 13:509 p.
Marine algae of the northeastern coast
of North America

M

Tchernia, P. (1957) 571609
Bull.Com.cent.Océanogr., 9(10):545-50
Sur l'origine des eaux salées profondes
du nord-ouest de l'Océan Indien (On
the origin of the deep salt waters in
the north-west of the Indian Ocean)

Examination of past theories on this
question in the light of results of work
done in 1955/56 and of an examination
of the results of the JOHN MURRAY
expedition. The influence of the waters
of the Red Sea, the Persian Gulf and
the Arabian Sea is discussed.

FAO:glk

M

Tchernigovtzeff, C. (1957) 571610
C.R.Acad.Sci., Paris, 244:1267-9
Observations sur l'évolution du bourgeon
de régénération du second périopode
chez Leander serratus (Pennant)
(Observations on the development of the
regenerative bud of the second periopod
in Leander serratus (Pennant))

Describes amputation experiment on
specimens reared in laboratory.

FAO:sjh

M

Togelberg, H.C. and 571611
J.M. Smith (1957)
Fish.Res.Pap.Wash.Dep.Fish., 2(1):25-34
Observations on the distribution and
biology of the pink shrimp (Pandalus
jordani) off the Washington coast

Exploratory trawling by JOHN N. COBB,
October-November 1955 and March-April
1956, giving size composition, diurnal
variations in catches, maturity, sex-
ratios.

FAO:sjh

M

Templeman, W. (1957) 571612
Progr.Rep.Atl.Cst Stas, (67):14-8
Redfish exploration north of Flemish Cap

Reports cruise of INVESTIGATOR II, 12-17/
7/1956 to study Sebastes marinus
distribution by area and depth. Catch
per unit effort, length and weight
distribution.

FAO:sjh

M

Templeman, W. and 571613
E.J. Sandeman (1957)
Progr.Rep.Atl.Cst Stas, (66):20-3
Two varieties of redfish in the
Newfoundland area. Fr

Ill. description of distinction between
Sebastes m. marinus and S. marinus
montella.

GLK:sjh

M

Terry, R.D. and 571614
R.E. Stevenson (1957)
Bull.geol.Soc.Amer., 68:125-8
Microrelief of the Santa Monica Shelf,
California

Tesch, F.W. and W. Steffens (1957) 571615
Dtsch.FischZtg, (4):105-10
Ein Grossgarnzug der Plattenseefischer
(Pulling of big nets by the fishermen
of Lake Balaton)

Description of mechanized seining on
Lake Balaton (Hungary); description of
the gear and its use.

FAO:tl

F

Tezel, R. (1957) 571618
Balık Balıkçılık, 5(6):23-7
Eski profesyonel balıkçılara dair
(About the old professional fishermen)

The reminiscence of an old fisherman,
about the kinds of fresh fish available
in the Bosphorus about 50 years ago.

SJH:sjh

M

Tezel, R. (1957) 571616
Balık Balıkçılık, 5(4):24-7
Mercan balıkçılığına dair (About
fishing grounds)

An amateur fisherman's reminiscence of
fishing grounds in the Marmara Sea.

SJH:sjh

M

Thacker, D.R. and 571619
H. Babcock (1957)
J.Solar Energy Sci.Eng., 1:37-50
The mass culture of algae

Review of growth and culture of Chlorella
and other algae in mineral media for
commercial purposes.

GLK:sjh

F

Tezel, R. (1957) 571617
Balık Balıkçılık, 5(7):25-8
Balıkçılık anane ve adabına dair
(About the habits and customs among the
Bosphorus fishermen)

An old amateur fisherman's reminiscences
about the traditions and the mutual
respect of the Bosphorus fishermen some
50 years ago.

SJH:sjh

M

Thailand. Department of 571620
Fisheries (1957)
Bangkok, 52 p.
A general account on the fisheries of
Thailand

MF

Thailand. Ministry of Agriculture (1957) Bangkok, 263 p. Agriculture in Thailand	571621	Thomson, J.M. (1957) <u>Aust.J.Mar.Freshw.Res.</u> , 8:1-13 Biological studies of economic significance of the yellow-eye mullet, <u>Aldrichetta forsteri</u> (Cuvier and <u>Valenciennes</u>) (Mugilidae)	571624
Chapter 3 deals with aquatic resources and fisheries; species caught are listed; fishing, processing and marketing methods are described; governmental activities are described; statistics of gear, catch, catch, market handlings, and trade.		Range and distribution; form and growth; size distribution; maturity; fecundity; sex-ratio; food; movements, variation; implications for the commercial fishery.	
GLK:glk	MF	GLK:sjh	M
Théodoridés, J. (1957) <u>Viè et Milieu</u> , 8(1):115-6 Parasites intestinaux de <u>Hydrophilus</u> (Hydrous) <u>pistaceus</u> Lap. (Col. Hydro- philidae) observés à Banyuls (Intestinal parasites of <u>Hydrophilus</u> (Hydrous) <u>pistaceus</u> Lap. (Col. Hydro- philidae) observed at Banyuls)	571622	Thomson, J.M. (1957) <u>Aust.J.Mar.Freshw.Res.</u> , 8:14-28 Interpretation of the scales of the yellow-eye mullet, <u>Aldrichetta forsteri</u> (Cuvier and Valenciennes)	571625
<u>Trichella hydrophilorum</u> Léger and Duboscq, <u>Nyctotherus gyocryanus</u> (Claparède and Lachmann) and <u>Toddinoma hydrophili</u> (Galch) found to be existing in the posterior intestine of <u>H. (H.) pistaceus</u> .		Study of structure; age-length keys; causes of rings and breaks in growth; comparison of growth of fish in Tasmania, Victoria and Western Australia and of females and males; modes of length distribution give high values for years I and II, because of mesh selection.	
FAO:efa	F	GLK:sjh	M
Thompson, P.E. (1957) <u>Washington</u> Should areas be set aside as nursery grounds to aid in the annual crop?	571623	Tibbo, S.N. (1957) <u>Bull.Fish.Res.Bd Can.</u> , (111):139-51 Contribution to the biology of herring (<u>Clupea harengus</u> L.) on the Atlantic coast of Nova Scotia	571626
		A general study is made of the length and age composition, rate of growth, sex, maturity and mean vertebral counts of herring on the Atlantic coast of Nova Scotia.	
	MF	FAO:glk	M

Tibbo, S.N. (1957) 571627
Bull.Fish.Res.Bd Can., (111):85-102
Herring of the Chaleur Bay area

Lengths, age, sex and maturity, vertebral counts; length and age composition; variations in relative strength of year-classes; rates of growth; the herring fishery and its potential.

FAO:glk

M

Tiews, K. (1957) 571630
Ber.dtsch.Komm.Moeresforsch., 14(3):221-32

Wirtschaftliche Bedeutung der deutschen Thunfischerei (Economic importance of the German tuna fishery)

The fishing areas and seasons, fleet and landing harbours; catches in various years and processing.

FAO:tl

M

Tibbo, S.N. (1957) 571628
Bull.Fish.Res.Bd Can., (111):153-64
Herring populations on the south and west coasts of Newfoundland

Length and age composition, variations in relative strength of year-classes, rates of growth, sex and maturity, vertebral counts.

FAO:glk

M

Timofeeva-Resovskaya, E.A. (1957) 571631
Bull.Soc.Nat.Moscou, 62(1):37-41
Biological deactivation of water containing radioactive substances by means of special ponds

MF

Tiews, K. (1957) 571629
Ber.dtsch.Komm.Moeresforsch., 14(3):192-220

Biologische Untersuchungen am roten Thun (Thunnus thynnus, Linnaeus) in der Nordsee (Biological investigations on the red tunas (Thunnus thynnus) in the North Sea)

Investigations concerning the appearance, propagation, length and weight and origin of Thunnus thynnus in the North Sea.

FAO:tl

M

Ting, R.Y. and 571632
P.T. Macy (Ed.) (1957)
Transl.Ser.Pacif.Salm.Invest., (13), 4 p.
Discussion on the position from which scale samples of red salmon should be taken for age determination

Translated from Biol.Rep.int.N.Pacif.Fish.Comm., 14.

MF

Trachova, K.S. (1957) 571633
Vop.Ikhtiol., 8:51-4
Razmnozhenie krupnoi stavridy (Trachurus
trachurus L.) v Chernom more
 (Reproduction of the Longo mackerel
 (Trachurus trachurus L.) in the Black
 Sea)

Brief account of the distribution of
 spawning fish, eggs and larvae.

FAO:glk

M

Tortonesco, E. (1957) 571636
Bull.Res.Coun.Israel, 6B(3-4):189-92
 On the Echinoderm fauna of Haifa Bay

Littoral and Mediterranean forms, living
 in sand or mud; names and characters
 of 24 spp. listed, five of which were
 previously unknown on this coast.

FAO:sjh

M

Tomlinson, N. and 571634
 R.A. MacLeod (1957)
Canad.J.Microbiol., 3(4):627-38
 Nutrition and metabolism of marine
 bacteria. IV. The participation of Na,
 K, and Mg salts on the oxidation of
 exogenous substrates by a marine
 bacterium

The inorganic ion requirements for the
 preparation, storage, and oxidative
 activity toward exogenous substrates
 of washed cell suspensions of a marine
 bacterium have been investigated.

FAO:tl

M

Towlson, G. (1957) 571637
New Scient., 2(46):14-6
 Influences on the regime of rivers

A review of the natural factors which
 determine the characteristics of a
 river system, and the study of which is
 the basis of river control engineering.

FAO:sjh

F

Toner, E.D. (1957) 571635
 Paper presented at the Symposium of the
British Association meeting in Dublin,
Sect. D (Zool.), 10/9/57
 Movements of salmon in the sea around
 Ireland

Tozawa, H., Y. Tokue 571638
 and K. Amano (1957)
Bull.Jap.Soc.sci.Fish., 23(6):335-41
 Studies on the radioactivity in certain
 pelagic fish - V. Confirmation and
 determination of radioactive elements
 in contaminated fishes caught in 1956
 (Part 1)

Analysis of liver of yellow-fin tuna and
 muscle of big-eye tuna caught by
 SHUNKOTSU-MARU, June 1956, at 10°N,
 157°30'E, with special attention to
 presence of Fe⁵⁵, Zn⁶⁵, and Cd^{113m}.

MF

SJH:sjh

M

Trager, W. (1957) 571639
Biol.Bull., Wood's Hole, 112(1):132-6
Excystation of apostome ciliates in
relation to molting of their crustacean
hosts

Observations and experiments have been
made with the encysted phoronts of
Gymnodinioides inkystans on the gills
of Pagurus longicarpus and of Gymnodi-
nioides sp. on the gills of Uca pugnax
and examines the condition under which
excystation will take place.

FAO:glk

M

Trewavas, E. (1957) 571640
Copeia, (2):161-2
Exploration hydrobiologique du Lac
Tanganyika (1946-1947) (Hydrobiological
survey of Lake Tanganyika)

Review of Poissons Cichlidae by M. Poll,
Rés.sci., 3(5B), 1956:1-619.

HR:efa

F

Truesdale, G.A. and 571641
A.L.H. Gameson (1957)
J.Cons.int.Explor.Mer., 22(2):163-6
The solubility of oxygen in saline
water

Synopsis for determinations of the
solubility of oxygen in sea water at
low temperatures have been made; the
results confirm the accuracy at such
temperatures of a solubility formula
previously reported. A table of
solubilities in sea water is given, and
the uses and limitations of some
solubility formulae are discussed.

GLK:agh

M

Tsuda, K., S. Akagi and 571642
Y. Kishida (1957)
Science, 126:927
Discovery of cholesterol in some red
algae

Technique of extraction, purification and
identification applied to Rhodoglossum
pulcherum (Kützting) and members of the
family Gelidiceae.

FAO:glk

M

Tubb, J.A. (1957) 571643
Occ.Pap.IPFC, mimeo:4 p.
Shifting cultivation and inland fisheries

Discusses adverse effects on water regime
in sloping and flat lands subject to
flash floods and silting resulting
especially from too frequently repeated
shifting cultivation.

FiB:tjj

F

Tully, J.P. and 571644
A.J. Dodimead (1957)
J.Fish.Res.Bd Can., 14(3):241-319
Properties of the water in the Strait of
Georgia, British Columbia, and
influencing factors

The temperature, salinity, pH, and
concentrations of dissolved oxygen,
dissolved nitrates, nitrites, inorganic
phosphates, and silicates are shown and
discussed, and their seasonal and
diurnal cycles are related to the
mechanism of tidal exchange, discharge
of the Fraser river, weather, and growth
of plankton.

GLK:tl

MF

Tunison, A.V. (1957) 571645
Progr. Fish Cult., 19(2):51-7
 Methods for determining the efficiency of
 production in the trout hatchery

A review of methods used in analysis and
 presentation of results.

WAD:wad

F

Türgân, G. (1957) 571646
Balık Balıkçılık, 5(6):9-14
Lüfer - Temnedon saltator Cuvier
 (Blue fish - Temnedon saltator Cuvier)

An article concerning new data based on
 the results of a research made at the
 Hydrobiological Research Institute.

SJH:sjh

M

Turekian, K.K. (1957) 571646
Paper presented at the Thirty-Eighth
Annual Meeting, Washington, D.C.,
April 29 - May 2, 1957

The significance of variations in the
 strontium content of deep-sea cores

M

Tuzot, O. and 571649
 A.M. del Perruggia (1957)
Vie et Milieu, 8(1):72-5
 Présence de la planaire américaine
Dugesia (cuplanaria) tigrina Girard aux
 environs de Montpellier (The presence
 of the American planaria Dugesia (cupla-
naria) tigrina Girard in the surroundings
 of Montpellier)

Records of distribution of the species.

FAO:hr

F

Turgutcan, B. (1957) 571647
Balık Balıkçılık, 5(10):19
Düğünler (Bağlar). VI (Fishermen's
 knots. VI)

A feature article dealing with several
 types of knots useful to fishermen.

SJH:sjh

M

Twomey, E. (1957) 571650
Paper presented at the Symposium of the
British Association meeting in Dublin,
Sect.D (Zool.), 10/9/57
 The age and growth of Irish salmon

MF

Uda, M. and A. Dairokuno (1957) 571651
Sci.Rep.Wholes Res.Inst., Tokyo, (12):

209-24

A study of the relation between the whaling grounds and hydrographic conditions. II. A study of the relation between the whaling grounds off Kinkazan and the boundary of water masses

Brief notes on observed whaling grounds; their distribution and seasonal variation. Incl. information on seasonal variation of whale catch.

FAO:sfa

M

Ueyanagi, S. (1957) 571652
Rep.Nankai reg.Fish.Res.Lab., 6:107-12
(On Kajikia formosana (Hirasala and Nakamura)). Ni En

Ecological and morphological evidence that this sp. is really the young of K. mitsukurii (striped marlin).

FAO:sjh

M

Ueyanagi, S. (1957) 571653
Rep.Nankai reg.Fish.Res.Lab., 6:103-6
(Morphological changes occurring through the growth of the black marlin, Eumakaira nigra Nakamura). Ni En

Morphological changes in growth from 10 to 230 cm (snout length, dorsal fin form, pectoral and ventral fin lengths).

FAO:sjh

M

Ueyanagi, S. (1957) 571654
Rep.Nankai reg.Fish.Res.Lab., 6:113-24

(Spawning of the albacore in the western Pacific). Ni En

Gonads collected by research vessel since 1949 show season and position of spawning, size of maturity, and fecundity.

FAO:sjh

M

Ueyanagi, S. (1957) 571655
Rep.Nankai reg.Fish.Res.Lab., 6:91-102
(Young of the black marlin, Eumakaira nigra Nakamura). Ni En

11 specimens 11.1-75.5 cm long from W. Pacific, S. Pacific and Indian Ocean confirmed as Eumakaira nigra in spite of morphological differences from adults, stomach contents show food is small squid and fish (Istiophorus, Decapterus, etc.) concentrated in W. Pacific in N. Equatorial current area.

FAO:sjh

M

Uganda. Game and Fisheries Department (1957) 571656
Uganda, 1957, 147 p.
Annual report for the period 1st January, 1955, to 30th June, 1956

Part III mentions progress in fisheries in Albert, George/Edward and Kyoga lake areas with a section on fish farming including aerial stocking of Tilapia. One appendix is on deep water fishing experiments.

:tjj

F

Union Géodésique et Géophysique 571657
Internationale (1957)
Paris, 36 p.
Chronique de l'U.G.G.I. no. 1 (I.U.G.G.
chronicle)

Programme of the I.U.G.G. 11th General
Assembly, minutes of the meeting of the
Interim Policy Committee, and minutes of
the meeting of the Working Group of
Oceanography of C.S.A.G.I.

TL:tl

M

Union Géodésique et Géophysique 571658
Internationale (1957)
Paris, 39:83
Chronique de l'U.G.G.I. no. 2
(I.U.G.G. chronicle)

Report of the meeting of Working Group
on Oceanography of C.S.A.G.I. in
Göteborg, January 1957, with appended
memoranda and notes on problems discussed
during the meeting.

TL:tl

M

Union Géodésique et Géophysique 571659
Internationale (1957)
Paris, 87-116
Chronique de l'U.G.G.I. no. 3
(I.U.G.G. chronicle)

Statutes and regulations of the I.U.G.G.

TL:tl

M

Union Géodésique et Géophysique 571660
Internationale (1957)
Paris, 117-62
Chronique de l'U.G.G.I. no. 4
(I.U.G.G. chronicle)

Notes on the present and future activities
of various associations and international
organizations associated with the I.U.G.G.

TL:tl

M

Union Géodésique et Géophysique 571661
Internationale (1957)
Paris, 167-208
Chronique de l'U.G.G.I. no. 5
(I.U.G.G. chronicle)

National reports presented at the fourth
C.S.A.G.I. Antarctic Conference.

TL:tl

M

U.K. Department of Scientific 571662
and Industrial Research (1957)
H.M.S.O., London, 80 p.
Report of the Water Pollution Research
Board with the report of the Director of
Water Pollution Research for the year
1956

Reports progress in Thames estuary
survey; study of oxygen balance in
surface waters, effect on it of synthetic
detergents, evaporation reducers, sewage
and foam suppressors; and the effects of
pollution on fish. A simple automatic
recorder of dissolved O₂ is described.
21 publications issued in 1956 are listed.

FAO:tjj

MF

U.K. Meteorological 571663
Office (1957)
H.M.S.O., London
Climatological charts of the North
Atlantic, May-October, 1957

U.K. Ministry of Agriculture, 571666
Fisheries and Food (1957)
Fish.Lab., Lowestoft
Fish stock record for 1956

A new mimeographed serial publication
giving tables of age and size compositions
of British landings, and catches per unit
effort of plaice, sole, whiting, hake
and cod.

M

FAO:sjh

M

U.K. Meteorological 571664
Office (1957)
H.M.S.O., London
Climatological charts of the North
Atlantic, July

U.K. Ministry of Agriculture, 571667
Fisheries and Food (1957)
Lab.Leafl., Lowestoft, (15):4 p.
The baird sledge dredge and its handling

Detailed ill. description of new gear
for Pecten fishing, and its operation.

MF

SJH:sjh

M

U.K. Meteorological 571665
Office (1957)
O.W.S.Met.Summ., 10
Meteorological and current summary for
Ocean Weather Stations - India, Juliett,
and Alpha for January to December 1956

U.K. Ministry of Agriculture, 571668
Fisheries and Food (1957)
Lab.Leafl., Lowestoft, (13):5 p.
English fish marking experiments in the
near waters in 1956

Numbers and localities of cod, whiting,
coalfish, hake, sole and herring marked
and recaptured.

M

SJH:sjh

M

U.K. Ministry of Agriculture, 571669
Fisheries and Food (1957)
Lab. Leaflet, Lowestoft, (16):31 p.
Guide to the exhibition, fisheries
laboratory, Lowestoft

A narrative giving detailed explanation
of exhibits illustrating and explaining
English marine fisheries research.

SJH:sjh

M

U.K. Ministry of Agriculture, 571670
Fisheries and Food (1957)
Lab. Leaflet, Lowestoft, (12):26 p.
Mid-water trawling pair fishing
experiment on herring 1955-56

An ill. report on alterations to vessels,
specification and operation of gear;
catches of Clupea harengus obtained:
their size and quality dependence on
depth and time of day; use of echo-
sounder to observe both fish and gear.

SJH:sjh

M

U.K. Ministry of Agriculture, 571671
Fisheries and Food (1957)
Lab. Leaflet, Lowestoft, (14):5 p.
Stocks of hake

A development of analysis reported in
Lab. Leaflet, (4), 1954, to determine
benefits of regulated fishing for
Merluccius merluccius.

SJH:sjh

M

U.K. Ministry of Transport 571672
and Civil Aviation (1957)
London
Manual on the avoidance of pollution of
the sea by oil

M

U.S. Congress. Senate 571673
Committee on Interstate and
Foreign Commerce (1957)
Wash., U.S. Govt Print. Off., 47 p.
Research for commercial production of
fish on flooded rice acreage

Hearing regarding Senate bill 1952
proposing a program of research to
develop methods for the commercial
production of fish on flooded rice
acreage in rotation with rice field
crops.

FAO:wad

F

U.S. Department of the Interior. 571674
Branch of Gamefish and Hatcheries (1957)
Fish. Leaflet, Wash., (147):7 p.
List of federal fish-cultural stations

F

U.S. Fish and Wildlife Service (1957) 571675
Dingell-Johnson Quart., 5(3)

For the period 1/1/56-30/6/56 lists and indexes projects and summarizes accomplishments of U.S. Federal Aid in Fish Restoration Program covering investigations of many marine and inland fisheries and species, development, and land and water acquisitions under this program in all states and territories.

WAD:sjh

MF

U.S. Fish and Wildlife Service (1957) 571676
Dingell-Johnson Quart., 6(1)

For the period 1/7/56-31/12/56 lists and indexes projects and summarizes accomplishments of U.S. Federal Aid in Fish Restoration Program covering investigations of many marine and inland fisheries and species, development, and land and water acquisitions under this program in all states and territories.

WAD:sjh

MF

U.S. Fish and Wildlife Service 571677
Bureau of Sport Fisheries and Wildlife (1957)
Sport Fish Restor., 29 p.
A report on sport fish restoration

A brochure describing the Federal Aid in Fish Restoration Program (Dingell-Johnson) of the United States for the 1952-56 period; popularly written and with many illustrations.

WAD:wad

F

U.S. Fish and Wildlife Service. 571678
Bureau of Sport Fisheries and Wildlife (1957)
Sport Fish Restor., (Statist. Suppl.), 59 p.
A report on sport fish restoration

A summary in tabular form of detailed information on the Federal Aid to Fish Restoration (Dingell-Johnson) Program in the U.S. during the 1952-56 period.

SJH:wad

F

U.S. Government (1957) 571679
Selected U.S. Govt Publ., Govt Print. Off., Wash., 760 p.

Documents on the use and control of the waters of interstate and international streams, compacts, treaties, and adjudications

U.S. Government (1957) 571680
Wash., U.S. Govt Print. Off., 411-43, 464
Arctic bibliography, Volume 7, A-Z, No. 38

U.S. Farina Commission (1957) 571604
Washington, 175 p.
Groundfish: fishing and filleting.
Information on the domestic industry,
production, consumption, foreign trade,
and industries in foreign countries

Includes description of groundfish areas
and fishing operations; landings,
employment and earnings, craft activity
and financing.

FAO:sjh

M

M

U.S. Treaties and other 571682
International Acts (1957)
Wash., U.S. Govt Print.Off., 6 p.
Sockeye and pink salmon fisheries.
Protocol between the United States of
America and Canada, amending Convention
of May 26, 1930, signed at Ottawa,
December 28, 1956

MF

Unoki, S. (1957) 571683
J.met.Soc.Japan, Ser. II, 35(2):78-87
On the ocean waves due to tropical
cyclones (2nd paper). Distribution of
waves viewed from geometric considera-
tion and typhoon reconnaissance by
aircraft

M

Orick, R.J., D.C. Pharo 571604
and E. Skudrzyk (1957)
Paper presented at the Thirty-Eighth
Annual Meeting, Washington, D.C.,
April 29 - May 2, 1957

A new method for measuring the thermal
microstructure of the sea

Uspenskaya, V.I. (1957) 571685
Bull.Soc.Nat.Moscou, 62(1):43-9
Preliminary observations on how to
weaken or eliminate the earthy odour
of river water

F

Utah University. Bureau of 571686
Economic and Business Research (1957)
Publ.Utah St.Dep.Fish Game, (7):73 p.
A study of the economic value of fishing
and hunting in Utah

F

Uusitalo, S. (1957) 571687
Geophysica, Helsinki, 5(3)
 Beobachtungen mit Bezug auf das Meereis
 (Observations relating the sea-ice)

Salinities of ice, its thickness and
 influence of the snow cover on
 thickness.

Vaas, K.F. (1957) 571690
Proc. Indo-Pacif. Fish. Council., 5:90-7
 On the nutritional relationships between
 plankton and fish in Indonesian fresh-
 water ponds

:tl

MF

F

Uusitalo, S. (1957) 571688
Geophysica, Helsinki, 5(3)
 On the interpretation of bathy-
 thermogrammes

Description of a method for correction
 of errors due to the slowness of the
 instrument.

Valdivia, J.P. (1957) 571691
Bol. Comp. adm. Guano, 33(8):9-13
 Situación climática del año 1955
 (Climatic situation of the year 1955)

General meteorological study of the
 climate of the coast of Peru.

:tl

MF

FAO:hr

M

Uyguner, B. (1957) 571689
Balık Balıkçılık, 5(2):14-6
 Apolyont gölüne ait kısa bir etüt
 (A short note on Lake Apolyont)

A survey of the yearly fish production
 of Lake Apolyont.

Valérion, J. (1957) 571692
Vie et Milieu, 8(1):23-57
 L'anhydrase carbonique et la production
 des gaz de la vessie natatoire de
Serranus cabrilla (L.) et S. scriba (L.)
 (Carbonic anhydrase and the gas production
 of the swim bladder of S. cabrilla (L.)
 and S. scriba (L.)).

A study of the metabolism of the gases
 of the swim bladder of the species in
 relation to the action of the carbonic
 anhydrase.

SEH:sgk

F

FAO:hr

M

<p>Vallowe, H.H. (1957) 571693 <u>Biol.Bull.Wood's Hole</u>, 112(3):422-9 Sexual differentiation in the teleost fish <u>Xiphophorus hellerii</u>, as modified by experimental treatment</p> <p>The normal sexual development and differentiation of <u>Xiphophorus hellerii</u> have been observed in the light of the adult sex ratio and the differentiation of the gonads from birth to maturity; reports also attempts to alter the differentiation pattern by experimental means.</p> <p>FAO:glk M</p>	<p>Van Campen, W.G. and 571696 E.E. Hoven (1957) <u>Fish.Bull., U.S.</u>, 111:173-249 Tunas and tuna fisheries of the world. An annotated bibliography, 1930-53</p> <p>Lists literature published between 1930 and 1953 with descriptive annotations and a subject index.</p> <p>FAO:efa M</p>
<p>Valori, P. (1957) 571694 <u>Ric.sci.</u>, 27(8):2492-500 La fotometria di fiamma nell'analisi delle acque naturali (The flame photometry in the analysis of natural waters)</p> <p>Reports a method of lithium determination in natural waters by the use of flame photometry. It consists of a particular technique for the preparation of the standards and samples of water to be examined, and permits the extremely quick determination of lithium concentrations up to 0.1ppm.</p> <p>FAO:glk F</p>	<p>Van Drimmelen, D.E. (1957) 571697 <u>Visserij-Nieuws, The Hague</u>, 9(9):138-41 Electrovisserij voor de praktijk (Electrofishing for the practice)</p> <p>F</p>
<p>Van Bergeijk, W.A. (1957) 571695 <u>Science</u>, 126:120 Lung volume of amphibian tadpoles</p> <p>Application of an equation to measure the lung volume of <u>Rana catesbeiana</u> and <u>Xenopus laevis</u>.</p> <p>FAO:shr F</p>	<p>Van Gelder, N. and 571698 K.A.C. Elliott (1957) <u>Rev.canad.Biol.</u>, 16(4):522 Occlusion and production of factor I by brain slices</p> <p>Abstr. only. Experiments with crayfish brain extracts which inhibit activity of stretch-receptor neurone.</p> <p>FAO:sjh MF</p>

Van Donding, J.W. (1957) 571700
J.Cons.int.Explor.Mer., 22(2):174-9
 A modification of the Knudsen method for
 salinity determination

A new adsorption indicator method for
 determining salinity of sea water is
 described. Experience over a period of
 twelve months has shown this method to
 be more trouble-free than the standard
 Mohr method.

GLK:sjh

M

Vargas, F.F. and B.J. Concha (1957) 571702
Invest.zool.chil., 3:88-95
Fisiología de las glándulas adrenales
en el teleosteo Sicyases sanguineus
 (Physiology of the adrenal glands in
 the teleostean S. sanguineus)

An investigation of the physiological
 effects of adrenalectomy on S. sangui-
nous.

FiB:hr

M

Van Meel, L. (1957) 571700
Bull.Jard.bot.Brux., 27(4):695-702
Biddulphia sinensis R. Groville 1866 -
 Contribution à l'écologie d'une diatomée
 du plancton marin de la Mer du Nord
 (Biddulphia sinensis R. Groville 1866 -
 Contribution to the ecology of one
 diatom of the marine plankton of the
 North Sea)

Taxonomic description, distribution and
 abundance and its seasonal variation,
 1951-53, annual variation 1921-34.

FAO:sjh

M

Vargas, F.F. and B.J. Concha (1957) 571703
Invest.zool.chil., 3:81-7
Histología y técnica de extirpación de
las glándulas adrenales en el teleosteo
Sicyases sanguineus (Histology and
 method of extirpation of the adrenal
 glands of the teleostean S. sanguineus)

Anatomical and histological study with
 description of a surgical technique for
 adrenalectomy in the species.

FiB:hr

M

Vannucci, M. (1957) 571701
Nature, Lond., 179:326
 Double monster ephyrae of Aurelia aurita

Describes two double monsters produced
 by normal scyphistoma taken from a tank
 in aquarium of Marine Station at Millport

Vargues, H. (1957) 571704
Bull.sta.Aquic.Pêcho Castiglione, (8):
 59-71

Etude sur les organismes nitrificateurs
 des "Mattes" de Castiglione (Study of
 nitrificant organisms of "Mattes" of
 Castiglione)

A chemical study of oozes of "Mattes".

FAO:hr

M

FAO:efa

M

Vargues, H. (1957) 571705
Bull.Soc.Hist.nat.Afr.N., 48(5-6):373-6
 Quelques aperçus concernant les phénomènes d'ammonification dans les boues marines provenant de la baie d'Alger
 (Some reviews concerning the phenomena of ammonification on the marine sediments from the Bay of Algier)

Contains methods and results.

FAO:hr

M

Vedel Tøning, A. (1957) 571708
Dansk FiskTid., 75(7):84-5
 Danmarks fiskeri- og havundersøgelser
 mangeartede virke i året 1956
 (Various activities of Denmark's fisheries and marine investigations during 1956)

Popular account of the activities (Place investigations, investigations on mesh size, investigations on ganoids and clupeoids).

FAO:tl

M

Vasiliu-Suceveanu, N. 571706
 and I. Radulescu (1957)
Bul.Inst.Cerc.piscic.Roman., 16(2):87-8
 Nota asupra endoparazitului Bunocotyle cingulata Odhner 1928 la pestii din Marea Neagra (Note on the endoparasite Bunocotyle cingulata Odhner 1928 in Black Sea fishes). Ru Fr

First finding of this trematode in Caspialosa pontica.

FAO:sjh

M

Vedel Tøning, A. (1957) 571709
Dansk FiskTid., 75(9):109-12
 Havundersøgelserne har bl. a. vist, at danske fiskere med flid undgår undermålskvillinger (The sea research has among other things shown that the Danish fishermen purposely avoid too small whittings)

Continuation of 571708.

FAO:tl

M

Vasserot, J. (1957) 571707
Vie et Milieu, 8(2):127-72
 Contribution à l'étude du comportement de capture des larves de l'odonate Calopteryx splendens (Contribution to the study of the behaviour during capture of larvae of Odonata Calopteryx splendens)

Describes the material and methods, the behaviour, and experimental analysis of the behaviour during capture.

FAO:hr

F

Veitser, Yu. I. (1957) 571710
Energ. Byull., (5):22-5
 Use of water of the Caspian Sea for the regeneration of cation exchangers

M

Velankar, N.K. (1957) 571711
Indian J.Fish., 4(1):208-27
Bacteria isolated from sea-water and
marine mud off Mandapam (Gulf of Mannar
and Palk Bay)

Lists and describes bacteria isolated
during quantitative investigations of
bacterial population of sea water,
plankton and mud from inshore environment.

FAO:efa

M

Venkataraman, G.S. (1957) 571712
Curr.Sci., 26(8):254
A note on the occurrence of three-pored
heterocysts in Mastigocladus laminosus
Cohn

Morphological description.

FAO:glk

F

Verboke, J. (1957) 571713
Résult.sci.Explor.hydrobiol.Kivu, Eduard
and Albert, 3(2):183-203
Chaoboridae (Diptera nematocera) -
Stades immatures et adultes
(Chaoboridae (Diptera nematocera) -
Immature and adult stages)

F

Verboke, J. (1957) 571714
Résult.sci.Explor.hydrobiol.Kivu, Eduard
and Albert, 3(2):3-24
Le régime alimentaire des poissons du
lac Kivu (Congo Belge et Ruanda) et
l'exploitation des ressources naturelles
du lac (Feeding of fishes in Lake
Kivu (Belgian Congo and Ruanda) and
exploitation of the natural resources
of this sea)

A study in which an evaluation of the
principal sources of food in the lake and
the utilization of it by the existing
fishes leads the author to conclude
that certain elements are not being fully
utilized and suggests the introduction of

571714
(Card 2)

several species that might utilize it.

FiB:wad

F

Vernet-Cornubert, G. (1957) 571716
Bull.Inst.océanogr.Monaco, (1097):1-23
Evolution du régénérat de la pince de
Pisa tetradon (Pennant) en fonction de
la maturité sexuelle (Evolution of
the regenerator of the claw of Pisa
tetradon (Pennant) in relation to the
sexual maturity)

A study of the morphologic and biometric
variations of the claw of females and
males, the relation between the molting
and regeneration, and the regenerator
of the males and females.

FAO:hr

M

Vernet-Cornubert, G. (1957) 571717
C.R.Acad.Sci., Paris, 244:1085-7
Note préliminaire sur la transformation
de la pince des mâles du crabe oxyrhynque
Pisa tetraodon (Pennant) (Preliminary
 note on the transformation of chelipeds
 of the oxyrhynchis crab Pisa tetraodon
 (Pennant))

Content as per title.

FAO:efa

M

Vernon, E.H. and 571720
 R.G. McMynn (1957)
J.Fish.Res.Bd Can., 14(2):203-12
Scale characteristics of yearling
coastal cutthroat and steelhead trout

Some scale characteristics of 88
 yearling coastal cutthroat trout
 (Salmo clarki clarki) and 96 yearling
 steelhead (Salmo gairdneri) were
 compared in some detail. Scale counts
 are compared; relation of circuli
 number with scale diameter is analysed;
 scale shape is discussed; relation of
 scale size and fork length is measured
 and an adjusted scale size is found.

GLK:glk

MF

Vernhet, S. (1957) 571718
Bull.Com.contr.Océanogr., 9(9):500-7
Sur certains phénomènes morphologiques et
hydrodynamiques observés sur la côte
languedocienne (On some morphological
 and hydrodynamic phenomena observed on
 the Longudock coast)

Littoral transfers by migration of sub-
 marine dunes. Predominance of the action
 of land breezes on the directions of
 transfers in the Gulf of Lion and the
 sinuosities of the beach.

FAO:glk

M

Vial, J.L. (1957) 571721
Copeia, (2):143
A new size record for Thamnophis
marcianus Baird and Girard

Reports record, description and habitat
 of specimen.

HR:efa

F

Vernon, E.H. (1957) 571719
J.Fish.Res.Bd Can., 14:573-98
Morphometric comparison of three races
of kokanee (Oncorhynchus nerka) within
a large British Columbia lake

An examination of morphometric features,
 growth rate, vertebral count and
 secondary sex characters, and a
 discussion of the effects of environment
 of anatomical features. A discussion
 also of the evidence of genotypic
 divergence resulting from isolation
 of the rates.

GLK:glk

MF

Vibert (1957) 571722
Plaisir de la pêche, Juin-Juill.-Août-Sept.
Aménagement des eaux douces
(Exploitation of fresh waters)

F

Vinokurov, A.A. and E.B. Dubrovskii (1957) <u>Vop.Ikhtiolog.</u> , 8:191-202 O znachenii nekotorykh ryboiadykh ptits v rybnoy khoziaistve iugo-vostochnogo Priazovia (Concerning the importance of some fish-eating birds in the fish economy of the south-eastern Azov)	571723	Vivier, P. (1957) <u>Bull.franç.Piscic.</u> , 29:129-35 La protection des eaux contre la pollu- tion en France (The protection of waters against pollution in France) A report on pollution work conducted in France.	571726
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On numbers and distribution, nutrition
and the relative importance of various
fish and insects in the diet of
different species of birds and on the
part played by birds in the spread of
fish diseases and parasites.

FAO:glk

M

FAO:hr

F

Virginia. Commission of Fisheries (1957) <u>Division of Division and Printing,</u> <u>Richmond</u> , 61 p. Fifty-eighth and fifty-ninth annual reports of the Commission of Fisheries of Virginia for the fiscal year ending June 30, 1956 and June 30, 1957	571724
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Personnel; expenses and receipts
statistics; reports of Superintendent
of hatcheries and of Virginia Fisheries
Laboratory - spp. studied, public
education and graduate instruction,
recommendations for research and
management list of publications since
1948.

FiB:sjh

MF

Vladimirov, V.I. (1957) <u>Zool.Zh.</u> , 36(8):1121-4 K biologicheskoi klassifikatsii ryb: prokhodnye i poluprokhodnye (On the biological classification of fishes: through-running and semi-through- running ones)	571727
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Subclassification of anadromous and
catadromous fishes.

FAO:tl

MF

Vivier, M. (1957) <u>Bull.franç.Pisc.</u> , 30(187):48-66 Communiqué. Comité scientifique de la Station Centrale d'Hydrobiologie appliquée (Biarritz, 11 mai 1957) (Communication. Scientific Committee of the Central Station of applied Hydrobiology. (Biarritz, 11 May, 1957))	571725
---	--------

Reports on the activities of different
hydrobiological stations.

FAO:hr

F

Vladykov, V.D. (1957) <u>Contr.Dep.Fish.</u> , Quebec, 54:235-48 Distant recaptures of shad (<u>Alosa sapi-</u> <u>dissima</u>) tagged in Quebec	571728
---	--------

Tabulation of recoveries; description of
tag; account of water temperatures;
discussion of recoveries with regard to
the evidence they furnish on trend of
migration.

GLK:glk

MF

Vladykov, V.D. (1957) 571729
Fishes of Quebec, (3)
American lobster. En Fr

Popular brochure with description of the species and notes on habitat, length and weight, spawning, food and growth.

FiB:glk

M

MF

Vladykov, V.D. (1957) 571730
Fishes of Quebec, (2):4 p.
Atlantic salmon. En Fr

Popular brochure with description of the species and notes on habitat, length and weight, spawning, food and growth.

FiB:glk

MF

Volkov, V.G. and 571732
B.V. Shokhvatov (1957)
Trud.Inst.Okeanol., 24:215
(Acoustical coupled high-speed bathy-thermograph). Ru

Volpe, A.V. (1957) 571733
Pan-Amer.Fisherm., 12(5):10-1
Fingerprinting fish

Popular account of tagging methods; age and growth determination; methods of recovery.

FAO:sjh

MF

Volckman, O.B. (1957) 571731
Brit.chem.Engng., 2:146-8
The practical application of electrodialysis to the desalting of brackish water

Volpe, E.P. (1957) 571734
Tulane Stud.Zool., 5(9):207-25
The early development of Rana capito sevosa

The eggs, tadpoles, and recently metamorphosed forms of Rana capito sevosa from Saint Tammany Parish, Louisiana have been described. The near-identity of the early stages of development of the sp. to the Florida Rana capito sevosa attests to their close affinity.

MF

FAO:hr

F

Von Bertalanffy, L. (1957) 571735
Handb.Zool., Berl., 8(10):68 p.
Wachstum (Growth)

An encyclopedic review of data and theory.

GLK:sjh

MF

Von Bertalanffy, L. (1957) 571736
Quart.Rev.Biol., 32(3):217-31
Quantitative laws in metabolism and growth

An illustrated review of a technique of evaluating growth data which is applied to fishery studies and in which many of the examples are of fish and other aquatic animals. Tabulates data on relations between metabolic rate and body size.

FAO:sjh

MF

Von Seydlitz, H. (1957) 571737
Kurze Mitt.Inst.FischBiol.Univ.Hamburg,
(7):40-4

Ein fund von Anarrhichas-larven (A
discovery of Anarrhichas larvae)

Description of larvae obtained by hatching of eggs found on the west coast of Spitzbergen and identified as being Anarrhichas lupus. The conditions of hatching are discussed and the features of the specimens are compared with those reported for specimens taken on previous occasions.

FAO:glk

MF

Voskresenskii, K.A. (1957) 571738
Zool.Zh., 36(2):289-90
Portativnye basseini dlia soderzhanii ryb i bespozvonochnykh (Portable basins for maintaining fishes and invertebrates)

Notes on rearing of fish and invertebrates in aquaria under natural conditions.

FAO:tl

F

Voss, G.L. and 571739
C.R. Robins (1957)
Mar.Lab.Univ.Miami, 57-15:11 p. (mimeo)
The Charles F. Johnson Oceanic Gamofish Investigations - Progress Report No. 3 - Summary of investigations for the period comprising September 1956 through April 1957

Summarizes work under headings: Systematics; Nomenclature; Distribution; Growth; Tagging; Migrations; Spawning; Food; Proposed future work. Bibliography of papers on billfish and tuna issued by the laboratory.

SJH:sjh

M

Vucetic, T. (1957) 571740
Acta adriat., 6:1-52

Zooplankton investigations in the sea water lakes "Malo Jezero" and "Veliko Jezero" on the Island of Mljet (1952-1953)

Description of some environmental conditions, seasonal variations in volume, in number of organisms and species composition. Ecological notes on most abundant zooplankton organisms.

FAO:glk

MF

Wachtler, M. (1957) 571741
Int.hydr.Rev., 34(2):117-20
Navigation sans compas à l'aide du
radiogoniomètre (Navigation without
compass by means of radiogoniometry)

Description of the method.

Waldichuk, M. (1957) 571744
J.Fish.Res.Bd Can., 14(3):321-486
Physical oceanography of the Strait of
Georgia, British Columbia

A descriptive and quantitative analysis
of the physical oceanography of the
area.

FAO:glk

M

GLK:tl

M

Wada, K. (1957) 571742
Bull.Jap.Soc.sci.Fish., 23(6):302-5
Laminary structures of cultured pearls
observed with electron microscope -
I. Nacreous layer pearl

Illustrated report on sections of
Pinotada martensii pearls.

Waldo, E. (1957) 571745
Louisiana Conserv., 9(6):8-9, 23
The fishery biologist

Popularly written article describing the
work of the fishery biologist with a
special reference to work in Louisiana.

SJH:sjh

M

FAO:wad

MF

Wald, G., P.K. Brown 571743
and P.S. Brown (1957)
Nature, Lond., 180:969-71
Visual pigments and depths of habitat of
marine fishes

A comparison of rhodopsins in the rods
of fishes with specific reference to
difference in their wave-lengths at
different depths.

Walish, H. (1957) 571746
Fish.Bull., Haifa, (11):6-7
(Fishing in the vicinity of Lake Tiberias
springs). Iw

A note.

GLK:wad

M

SJH:sjh

F

Walker, A.M. (1957) 571747
Nature, Lond., 180:228-9
Statistical analysis of a random, moving
surface

Review of 571023.

GLK

M

Wangorsky, P.J. and 571750
W.J. Cunningham (1957)
Ecology, 38:136-9
Time lag in prey-predator population models

Analysis of the equations resulting
from the introduction of a time lag in
the response of the predator to changes
in the prey population shows an array
of possible solutions. Discusses the
determinants of the form of the
equation and the possibility of
introducing non-linear interactions.

FAO:glk

MF

Walker, F.T. and 571748
W.D. Richardson (1957)
J.Ecol., 45:225-32
Survey of the Laminariaceae off the
Island of Arran: changes from 1952 to
1955

4 surveys of 1600 ha of sub-littoral in
northern half of this Scottish island
made in winters 1952-1955 showed
seasonal and depth variations, and
continuous annual decrease in density
of algae, dominated by Laminaria saccha-
rina Lamour.

FAO:sjh

M

Wasserman, A.O. (1957) 571751
Copeia, (2):144-5
Hybridization in three species of
spadefoot toads

Brief notes on the development of
crosses of Scaphiopus couchi ♂ ×
S. hammondi ♂; S. couchi ♀ ×
bombifrons ♂; and S. couchi ♀ ×
S. hurteri ♂.

HR:efa

F

Walters, V. (1957) 571749
Copeia, (1):60-1
Protolophotus, a new genus of allotrio-
gnath fish from the Oligocene of Iran
Suggests assignment of fossil form to
a separate genus. Incl. diagnosis of
Lophotes elami Arambourg and description
of the genus.

HR:efa

M

Watabe, N., G. Yoshii 571752
and Y. Okada (1957)
Bull.Jap.Soc.sci.Fish., 23(3):139-43
Studies of shell formation in young
pearl oyster, Pinctada martensii
(Dunker), using Ca⁴⁵ - Comparison of
the uptake of Ca⁴⁵ from sea water and
food

Ca⁴⁵ added to filtered and unfiltered
(i.e. containing plankton) batches of
sea water; oysters put in after
equilibrium established, and later
radioactivity of gills and mantle
examined.

SJH:sjh

M

Waters, T.F. and R.C. Ball (1957)
New Scient., 2(51):42
Rescue at sea

Proposed use of underwater sound as
distress signal.

FAO:sjh

MF

Watts, J.C.D. (1957) 571756
Bull.Inst.franç.Afr.noire, Ser.A, 19:
1020-9

The chemical composition of the bottom
deposits from the Sierra Leone River
estuary

A preliminary statement on the con-
centration of organic matter in the
bottom deposits.

FAO:hr

MF

Waters, T.F. and R.C. Ball (1957) 571754
J.Wildlife Mgmt, 21(4):385-91
Line application to a soft-water,
unproductive lake in northern Michigan

Four year study showed effect of
artificial alkalinity change on plankton
blooms and on growth of Myriophyllum
and of stunted Perca flavescens.

FAO:sjh

F

Watts, J.C.D. (1957) 571757
Bull.Inst.franç.Afr.noire, 19:539-47
The chemical composition of west
African fish. 1. The west African shad,
Ethmalosa dorsalis (C. and V.) from
the Sierra Leone River estuary

Analysis of variation of proximate
composition throughout the year.

FAO:glk

MF

Watson, K.S. (1957) 571755
Sewage industr.Wastes, 29:901-6
Waste treatment in the atomic age

MF

Waugh, G.D. (1957) 571758
Fish.Invest., Lond., Ser.II, 21(1):1-47
Oyster production in the rivers Crouch
and Reach, Essex from 1950 to 1954

Relation of hydrographic conditions
to spatfall; food supply; relation of
breeding stock-size to larval production;
winter losses; effect of barnacles on
set of spat; description of spat
collectors and methods of recording
spatfall.

FAO:sjh

MF

Waugh, G.D. (1957)
Now Scient., 3(58):10-2
Oysters in Britain

571759

Short illustrated article on the biology of and fisheries for, Ostrea edulis and Gryphaea angulata.

FAO:sjh

M

Weeks, W.F. and
O.S. Lee (1957)
Paper presented at the Thirty-Eighth Annual Meeting, Washington, D.C., April 29 - May 2, 1957
Observations on the growth of sea ice at Hopedale, Labrador

571760

M

Woertman, J. (1957)
J. Glaciol., 3:38-42
Deformation of floating ice shelves

571761

M

Weise, J.G. (1957)
Ecology, 38:195-204

571762

The spring cave-fish, Chologaster papilliferus, in Illinois

Occurrence, behaviour, temperature tolerance, food, reproduction; analysis of rapids community.

FAO:sjh

F

Weiss, C.W. and
J.L. Botts (1957)
Sewage industr. Wastes, 29:810-8
Factors affecting response of fish to toxic materials

571763

Tests of effect of isopropyl methyl-phosphonofluoridate (Sarin) on Pimephales promelas, Lepomis cyanellus and Carassius auratus, and its relation to temperature and O₂ content of water.

:sjh

F

Weiss, H.V. and
W.H. Shipman (1957)
Science, 125(3250):695
Biological concentration by killer clams of cobalt-60 from radioactive fallout

571764

Short note on concentration of cobalt by killer clam.

FAO:tl

MF

Welander, A.D. (1957) 571765
Fish. Res. Pap. Wash. Dep. Fish., 2(1):60-6
 Rare fishes from the eastern North
 Pacific Ocean

Ill. descriptions of trawl-caught
 specimens of Clidoderma asperrimum
 (T. and S.), Anotopterus pharao
 Zugmayer, and Caristius macropus
 (Bellotti).

FAO:sjh

M

Wells, H.W. (1957) 571763
Ecology, 38:123-8
 Abundance of the hard clam Mercenaria
mercenaria in relation to environmental
 factors

Examines the relations of this clam
 with bottom type, current, vegetation
 temperature, salinity, depth of water
 and fishing pressures.

FAO:sjh

M

Welander, P. (1957) 571766
Tellus, 9:45-52
 Wind action on a shallow sea: some
 generalizations of Ekman's theory

The theory has been extended to a
 shallow sea, for which the Ekman "depth
 of frictional influence" d is comparable
 to the actual depth h . It is pointed out
 that the wind-stress divergence may be
 of the same importance as the wind-
 stress curl in this case.

FAO:glk

M

Went, A.E.J. (1957) 571769
Irish Nat. J., 12:177-82
 The pike in Ireland

Summarizes the evidence for the pike
 having been introduced in Ireland
 during the Middle Ages and spread over
 the country especially during the past
 two hundred years.

:jae

F

Welle-Strand, E. (1957) 571767
Dansk Fisketid, 75(2):15
 Norsk havforsknings naeste storopgave
 vil blive smaasildsundersogelser (Next
 task for the Norwegian oceanographical
 investigation will be the investigation
 of small (juvenile) herring)

Plans for the future works on herring
 investigations in Norway.

FAO:tl

M

Went, A.E.J. (1957) 571770
Nature, Lond., 180:789-90
 Biology of the salmon

A report on a symposium by this name
 held 10 Sept. 1957 by Section D (Zoology)
 of the British Association meeting in
 Dublin, which discusses the following
 papers: 571574, 571635, 571650 and
 571771.

GLK:wad

MF

Went, A.E.J. (1957) 571771
Paper presented at the Symposium of the
British Association meeting in Dublin,
Sect.D (Zool.) 10/9/57
Salmon investigations in Ireland, with
particular reference to the River Shannon

MF

Wesenberg-Lund, E. (1957) 571774
Bull.Sea Fish.Res.Sta., Israel, (14):14p.
Contributions to the knowledge of the
Red Sea - No. 3 - Sipunculoida and
Echiuroidea from the Red Sea

Description and figures of specimens,
with notes on distribution and general
biology. Bibliography and table of
comparative distributions.

SJH:sjh

M

Went, A.E.J. and 571772
E. Twomey (1957)
Irish Nat.J., 12:205-6
Notes on Irish char, Salvolinus colii
Gunther: VI.

Notes on char from Loughs Corrib and
Fad, with descriptions and measurements.

:jae

F

Wharton, J. (1957) 571775
Swam, Earl Gregg, Williamsburg, Virginia,
78 p.
The bounty of the Chesapeake; fishing
in colonial Virginia

MF

Wesenberg-Lund, E. (1957) 571773
Bull.Res.Coun.Israel, 6B(3-4):193-200
Sipunculoida from the coast of Israel
Illustrated description of Phascolosoma
granulatus, Aspidosiphon mülleri and
Aspidosiphon clogans.

Wheatland, A.B. (1957) 571776
Challenger Soc., 3(9):31
The Thames Estuary and its pollution -
II. Oxidation and reduction processes

Abstr. of paper read at Joint Meeting
of the Water Pollution Research
Laboratory, Stevenage; and Zoological
Society of London, Regent's Park,
London. 24th and 25th January, 1957.
Content as per title.

ENCLOSURE

M

SJH cfa

MF

White, J.H. (1957) 571777
Bull. Fish. Res. Bd. Can., (116):63 p.
 Food and natural history of mergansers
 on salmon waters in the maritime
 provinces of Canada

Results of long-term observations and
 experiments concerning principally
Mergus merganser americanus and to a
 lesser extent M. serrator and Lophodytes
caucullatus.

GLK:wad

MF

Whitley, G.P. (1957) 571780
Aust. Zool., 12:251-61
 Ichthyological notes

A taxonomic list of marine and fresh-
 water species with notes on their
 distribution, and a key to the fresh-
 water Chandidae of Australia.

FAO:hr

MF

White, J.H. and 571778
 B. Komarovskiy (1957)
Fish. Bull., Haifa, (13):14-6
 (The protection of fishing nets by
 preservatives using cutch). Iw En

Account of field experiments.

Whitley, G.P. (1957) 571781
Aust. Zool., 12:293-4
 An interesting leatherjacket

SJH:sjh

M

M

White, W.A. and 571779
 G.B. Maxey (1957)
Paper presented at the Thirty-Eighth
Annual Meeting, Washington, D.C.,
April 29 - May 2, 1957
 A possible mechanism for the concentra-
 tion of brines

M

Whitley, G.P. (1957) 571782
Aust. Zool., 12:293
 The status of Algoa (Pisces: Coryphaeni-
 dae)

M

Whitney, G.G., Jr. (1957) 571783
J.Cons.int.Explor.Mor., 22(2):167-73
Factors affecting the accuracy of
thermometric depth determinations

The technique of thermometric depth
determination is briefly described, with
comments on design factors affecting
the magnitude of the pressure factor Q.
The technique of laboratory tests of
pressure factor determination is briefly
described.

GLK:sjh

M

Wiigol, R.L. and 571786
J. Kukk (1957)
Trans.Amer.geophys.Un., 38(5):667-74
Wave measurements along the California
coast

The heights and periods of waves were
measured at Davenport, California,
between July 1953 and November 1954,
mostly by means of a surface-type
wave gage. Certain results are compared
with similar published data obtained
by bottom pressure recorders.

FAO:tl

M

Whittingham, C.P. and 571784
A.H. Brown (1957)
Plant Physiol., 32 (Suppl.):xv
Oxygen evolution from algae illuminated
by short and long flashes

Abstr. of paper presented at the meeting
of the American Society of Plant
Physiologists and the Physiological
Section Botanical Society of America,
Stanford, California, August 25-29, 1957.

FLO

MF

Wiigol, R.L. et al. (1957) 571787
Tech.Rep.Calif.Waves Res.Lab., Ser. 99,
2
Water gravity waves generated by a
moving low pressure area

M

Wiigol, R.L. (1957) 571785
Trans.Amer.geophys.Un., 38(5):760
Discussion of "Properties of shoaling
waves by theory and experiment"

Discussion on original article by P.S.
Enghusen, Trans.Amer.geophys.Un., 37:
265-72 (1956), on the Stokes' third
approximation for wave celerity in
relatively shallow water.

FAO:tl

M

Wilder, D.G. and 571788
D.W. McLoose (1957)
Progr.Rep.Atl.Cst Stas., (66):24-6
How temperature and crowding affect the
holding of lobsters in artificial sea
water. Fr

Experiments on mortality of Homarus
americanus in tanks.

GLK:sjh

M

Wilke, F. (1957) 571789
J.Wildlife Mgmt, 21:241-2
Food of sea otters and harbor seals at
Amchitka Island

Stomach contents analysis of Enhydra
lutris and Phoca vitulina richardi.

FAO:sjh

M

Wilke, F. and 571790
K.W. Kenyon (1957)
J.Wildlife Mgmt, 21:237-8
The food of fur seals in the eastern
Bering Sea

Analysis of stomach contents of samples
of Callorhinus ursinus taken in Bering
Sea, July 1955.

FAO:sjh

M

Willgoos, J.F. (1957) 571791
Nature, Lond., 179:163-4
Occurrence of the leathery turtle in the
northern North Sea and off western
Norway

Four records of Dermochelys coriacea (L.)
in 1956.

GLK:wad

M

Williams, A.J. and 571792
D.E. Cartwright (1957)
Trans.Amer.Geophys.Un., 38(6):864-6
A note on the spectra of wind waves

Attention is drawn to a useful non-
dimensional parameter which allows the
width of the energy spectrum of waves
to be taken into account in predicting
some of their statistical properties.
This parameter is evaluated for the
spectra of wind generated waves proposed
by Darbyshire and by Neumann.

TL:tl

M

Wilson, K. (1957) 571793
Ann.Bot., Lond., 21:1-11
Extension growth in primary cell walls
with special reference to Elodea cana-
densis

Quantitative study of distribution of
perforations in walls of cortical
parenchyma and discussion of data in
relation to general problem of cell
extension.

FAO:efa

F

Wilson, M.S. (1957) 571794
Pacif.Sci., 11(3):265-74
Redescription of Teredicola typica C.B.
Wilson (Crustacea: Copepoda)

A review and amplified description with
ill. of all the appendages.

FAO:hr

M

Wimber, P.S. and
E.D. Avari (1957)
J.Beng.nat.Hist.Soc., 29:33-6
General information on fishing in North
Bengal

571795

Witmer, T.R. (Ed.) (1957) 571798
U.S.Department of the Interior, 760 p.
Documents on the use and control of the
waters of interstate and international
streams. Compacts, treaties and
adjudications.

M

F

Winn, H.E. (1957) 571796
Brit.J.Anim.Behav., 5(1):25-8
Egg site selection by three species of
darters (Pisces, percidae)

Series of experiments show that Etheostoma
blennioides selects algae or other
similar plants for egg deposition mainly
on the basis of texture and not of smell
or colour. Etheostoma caeruleum and E.
spectabile have a slight difference in
size of gravel utilized for deposition of
eggs.

Woelke, C.E. (1957) 571799
Fish.Res.Pap.Wash.Dep.Fish., 2(1):35-42
The quality of seed oysters from Japan

Nine years of records of Crassostrea
gigas before export from Japan to
Washington including estimates of
predator mortality.

SJH:sjh

F

FAO:sjh

M

Winn, H.E. (1957) 571797
Science, 125:885-6
Behaviour, sexual dichromatism, and species
of parrot fishes

Pronounced sexual dimorphism among species
of parrot fishes (Scaridae) caused
recognition of specific status to males
and females of the same species. By
studying spawning aggregations, injecting
testosterones into females and comparing
morphometric characteristics, a number
of different species were found to be
different sexes of the same form.

Wolf, K. (1957) 571800
Progr.Fish Cult., 19(1):14-8
Blue-sac disease investigations: micro-
biology and laboratory induction

A review of the previous work, account of
new experiments, and a theory that the
disease is a result of metabolic wastes;
recommendations for control are given.

FAO:hr

M

WAD:wad

F

Wolf, K. and 571801
C.E. Dunbar (1957)
Bact.Proc., Abstr., (A57):25
Strain differences in a fish-pathogenic
Corynebacterium

Wood, E.M. and 571804
W.T. Yasutake (1957)
Progr.Fish Cult., 19(2):64-7
Acute sulfamethazine toxicity in young
salmon

Describes its pathology and discusses
factors in etiology of losses among fish
treated with sulfonamides, with specific
reference to Oncorhynchus.

MF

WAD:wad

F

Wolfs, J. (1957) 571802
Résult.sci.Explor.hydrobiol.Kivu, Eduard
and Albert, 3(2):171-82
(Culicidae (Diptera nematocera)). Fr

Wood, E.M. and 571805
W.T. Yasutake (1957)
Progr.Fish Cult., 19(1):7-13
Histopathology of fish: V. Gill disease

Reviews the controversy concerning
presumed causative agents (bacterial
infectious nutritional deficiency) of
this important disease and introduces
new evidence which advances the theory
that both infectious and nutritional
agents are operative simultaneously.

F

WAD:wad

F

Wolcott, W.S. (1957) 571803
Copeia, (1):1-10
Comparative osteology of serranid fishes
of the genus Roccus (Mitchill)

A comparative osteological study of
Roccus saxatilis, R. chrysops, R. amori-
canus, R. interruptus, and R. labrax
which indicates that biologically the
species are of a single genus. Sub-
genera may be defined by combinations of
skeletal characters.

Wood, F.G., Jr. (1957) 571806
Copeia, (2):153-4
Southern extension of the known range
of the basking shark, Cetorhinus maximus
(Gunnerus)

Reports record of specimen that extends
known southern range of this sp.

HR:hr

MF

HR:efa

M

Wood, P.C. (1957) 571807
J.Cons.int.Explor.Mer., 22(2):200-7
Factors affecting the pollution and self-
purification of molluscan shellfish

A description of the natural processes
of pollution and cleansing in oysters
(Ostrea edulis) and mussels (Mytilus
edulis) in an estuary subject to
intermittent pollution. Temperature
affects seasonal cycles.

GLK:glk

MF

Wordie, J.M. (1957) 571810
Mar.Obs., 27(175):31-3
Ice in the Weddell Sea

Discussion on the distribution of the
pack-ice in this area.

FAO:tl

M

Woodburn, K.D. et al. (1957) 571808
Tech.Ser.Fla Bd Conserv., (21):33 p.
The live bait shrimp industry of the
west coast of Florida

M

Worrell, E. (1957) 571811
Aust.Zool., 12(3):201-10
A new water-monitor from northern
Australia

A description of the new species of
lizard Varanus bulliwallah.

FAO:hr

F

The Woods Hole Oceanographic 571809
Institution (1957)
Coll.Repr.Woods Hole oceanogr.Instn.
32 p.
Report for the year 1956

Lists of trustees, members of corporation
and research staff; reports of Director
on research (with list of publications)
and of Treasurer.

Worthen, E.P. and 571812
F.S. Barbour (1957)
U.S.P. 2,759,882
Fresh-water preparation from salt water

FAO:sjh

M

MF

Worzel, J.L. (1957) 571813
Paper presented at the Thirty-Eighth
Annual Meeting, Washington, D.C.,
April 29 - May 2, 1957
Tests of graf sea gravimeter

M

Wurtz, A. (1957) 571816
Bull.franç.Piscic., 184:89-128
Champignons, bactéries et algues des
eaux polluées (suite) (Fungi,
bacteria and algae of polluted waters)

A taxonomic and ecological study.
Continued from No. 182, 1956.

FAO:hr

F

Wright, C.A. (1957) 571814
Bull.Brit.Mus.(nat.Hist.), 20 p.
Guide to molluscan anatomy for
parasitologists in Africa

MF

Wyburn, G.M. and 571817
P. Bacsich (1957)
New Biol., 24:50-9
The mast cell

Ill. review of their occurrence and
function throughout the animal kingdom,
including salmon, sponges, echinoderms,
crayfish.

GLK:glk

MF

Wright, C.A. (1957) 571815
Bull.Brit.Mus.(nat.Hist.),
5(1):29 p.
Studies on the structure and taxonomy
of Bulinus jousseaumei (Dautzenberg)

F

Yabuta, Y. and 571818
M. Yukinawa (1957)
(Age and growth of yellowfin tuna
(Neothunnus macropterus) in Japanese
waters by size frequencies). Ni En

Growth estimated from length frequencies
in Japanese catches 1953-55. Comparison
with results of other workers.

FAO:sjh

M

Yabuta, Y. and M. Yukinawa (1957) <u>Rep.Nankai reg.Fish.Res.Lab.</u> , 5:134-7 (The latitudinal changes of the sizes of yellowfin tuna). <u>Ni</u> En	571819	Yamanaka, H. (1957) <u>Rep.Nankai reg.Fish.Res.Lab.</u> , 5:158-64 (On the currents in the Solomon Seas from the drift of the tuna long-line between June and August). <u>Ni</u> En	571822
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Length frequencies vary with latitude
in summer but not in winter; relation
to ocean currents.

Current maps obtained from directions of
laying of lines.

FAO:sjh

M

FAO:sjh

M

Yabuta, Y. and M. Yukinawa (1957) <u>Rep.Nankai reg.Fish.Res.Lab.</u> , 5:119-26 (Studies on the yellowfin tuna. I. Seasonal difference of size compositions in the adjacent waters of the west Carolines). <u>Ni</u> En	571820
--	--------

Recruitment, growth and migration data;
relation of current systems.

Yamasaki, H., M. Sitanaka and A. Fukuhara (1957) <u>Bull.Jap.Soc.sci.Fish.</u> , 23(4):195-8 Studies on the ecology of <u>Conchocelis</u> - phase of <u>Porphyra tenera</u> Kjellm - IV. On the influence of the diluted sea water on the growth and maturity of <u>Conchocelis</u>	571823
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Report of controlled experiments with
cultures.

FAO:sjh

M

SJH:sjh

M

Yaldwyn, J.C. (1957) <u>Trans.roy.Soc.N.Z.</u> , 84(4):883-95 Studies on <u>Palaemon affinis</u> M. -Edw. 1837 (Crustacea, Decapoda, Natantia). Part II. Variation in the form of the rostrum	571821
---	--------

Nature of variation is described, and
the causes of extreme forms discussed;
range of genetic rostral variation is
described.

Yanagimachi, R. (1957) <u>Bull.Jap.Soc.sci.Fish.</u> , 23:81-5 Studies of fertilization in <u>Clupea</u> <u>pallasii</u> - IV. Some properties of the sperm-stimulating factor in the micropyle area of the mature egg. <u>En</u> <u>Ni</u>	571824
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Micrurgical and chemical study of a
factor bound to egg-membrane which causes
quiescent spermatozoa to become active if
brought near it.

FAO:glk

M

SJH:sjh

M

Yanaginachi, R. (1957) 571825
Bull.Jap.Soc.sci.Fish., 23:290-4
Studies on fertilization in Clupea
pallasii - V. The role of calcium ions
in fertilization and development

Reports experiments with artificial
fertilization under various conditions.

SJH:sjh

M

Yashouv, A. (1957) 571828
Bamidgeh, 9:32-42
The Fish Culture Research Station - Dor
(Annual Report for the year 1956)

A review of work and achievements, with
short accounts of work done by each
staff member.

WAD:sjh

F

Yaphe, W. (1957) 571826
Canad.J.Microbiol., 3(7):987-93
The use of agarase from Pseudomonas
atlantica in the identification of agar
in marine algae (Rhodophyceae)

An extracellular hydrolase, specific
for agar, was prepared from Pseudomonas
atlantica.

FAO:tl

M

Yashouv, A. (1957) 571829
Fish.Bull., Haifa, (11):7
(Contribution to the knowledge of Lake
Tiberia carps). Iw

A note.

SJH:sjh

F

Yapp, W.B. and 571827
G.H. Bourne (Ed.) (1957)
Symp.Inst.Biol., (6):128 p.
The biology of ageing

Report of a symposium dealing with
ageing in bacteria, high plants and
animals and in relation to metabolism
and other physiological aspects.
Includes papers by Sinclair, Comfort
and Bourlière, which mention ageing of
aquatic organisms (see 570181, 570318
and 571477).

GLK:glk

MF

Yashouv, A. (1957) 571830
Fish.Bull., Haifa, (14):25-31
(The state of Acanthobrama fishery in
Lake Tiborias during 1949-1953). Iw
En

Catch and effort statistics of a method
of fishing for A. terrae sanctae Steinitz
('Tarith'). Abundance index; catch
composition, incl. data for Tilapia spp.
Clarias lazera, Varichorinus sp., Barbus
canis and B. longiceps.

SJH:sjh

F

Yentsch, C.S. (1957) 571831
Nature, Lond., 179:1302-4
A non extractive method for the quantitative estimation of chlorophyll in algal cultures

Description of the use of millipore filter for measuring of chlorophyll.

GLK:glk

M

Yeo, S.A. (1957) 571832
Challenger Soc., 3(9):35
The problem of wind drift near a free water surface

Abstr. of paper read at Joint Meeting of the Water Pollution Research Laboratory, Stevenage; and Zoological Society of London, Regent's Park, London. 24th and 25th January, 1957. Account of observations made in King George VI Reservoir, on the drift of bodies with different trajectories.

SJH:efa

M

Yokota, T. (1957) 571833
Rep.Nankai reg.Fish.Res.Lab., 5:1-16
(Stock analysis of Sardinops melanosticta (Temminck and Schlegel). Ni En

Fishing and natural mortality coefficients calculated for O and I groups, using echo-sounder and purse-seine catches and effort.

FAO:sjh

M

Yokota, T. (1957) 571834
Rep.Nankai reg.Fish.Res.Lab., 5:17-8
On survival rate of fry of Iwashi fishes

Mortality estimate from length composition and growth rate data for fry of Engraulis japonicus taken in Hyûga Nada at 42 stations in 1950-55.

FAO:sjh

M

Yonge, C.M. (1957) 571835
Discovery, 18:255-6
Noopilina: survival from the palaeozoic

Description and significance of new molluscan genus found at depth of 2 miles off West Mexico by GALATHEA, 6/5/52.

FAO:sjh

M

Yoshida, H. and T. Ito (1957) 571836
J.Shimonoseki Coll.Fish., 6(2):261-70
Fish fauna of the Japan sea

List of marine fishes of Japan.

FAO:sjh

M

Yoshida, K. (1957) 571837
Geophys.Notes, Tokyo, 10(1)
A note on the pressure changes of the
two-layer ocean

M

Young, E.C. (1957) 571840
J.Fm Econ., 39:249-52
Discussion: ten years of F.A.O.
statistics and economics training
centers

Discussion of 570500.

FAO:sjh

MF

Yoshihara, T. (1957) 571838
Bull.Jap.Soc.sci.Fish., 22:618-20
(On the type of frequency curve of the
catch. II.) Ni En

When the catch is distributed by the
exponential distribution, the logarithm
of the catch may be represented by a
frequency curve which is very close
to the logarithmic normal distribution
curve.

SJH:sjh

MF

Yusa, T. (1957) 571841
Bull.Hokkaido reg.Fish.Res.Lab., 15:1-14
Eggs and larvae of flatfishes in the
coastal waters of Hokkaido. I. Embryonic
development of the starry flounder
Platichthys stellatus (Pallas)

Eggs of fish caught by gill-nets at
Hokkaido in March 1954 were artificially
fertilized, and the development of the
larvae observed. Embryological details
are described and illustrated and the
relation of development rates of
temperature and other factors is
discussed.

FAO:sjh

M

Yoshihara, T. and 571839
J. Fukioka (1957)
Bull.Jap.Soc.sci.Fish., 22:641-4
(The toxicity of chemicals on fish. II.
The estimation of the effectiveness of
insecticides on the young carp, Cyprinus
carpio Linne). Ni En

Experiments on mortality caused by endrin,
aldrin, dieldrin, spadrin, rotenone,
D.D.T., and B.H.C. Relation to
concentration and time of exposure.

SJH:sjh

F

Yusa, T. (1957) 571842
Bull.Hokkaido reg.Fish.Res.Lab., 15:15-22
(Eggs and larvae of flatfishes in the
coastal waters of Hokkaido. II. Early
development of the flatfish Lepidopsetta
mochigarei Snyder). Ni En

Eggs of fish caught by gill-nets at
Hokkaido in January 1955 were artificially
fertilized, and the development of the
larvae observed. Embryological details
are described and illustrated and the
relation of development rates of
temperature and other factors is
discussed.

FAO:sjh

M

Zanl, P.A. and 571843
J.J.A. McLaughlin (1957)
Nature, Lond., 180:199-200
Isolation and cultivation of zooxanthol-
lae

Describes successful methods of culture
of Scyllaea (from a nudibranch), Casso-
peia (a scyphozoan jellyfish) and Condy-
lactis (an anemone) from waters around
Bimini, British West Indies, in
variations of new synthetic marine media.

GLK:sjh

M

Zaitsev, V.P. (1957) 571844
Fish Ind., Moscow, (11):26-30
(40 years of fishery science).

Ru

FAO

MF

Zanandrea, G. (1957) 571845
Nature, Lond., 179:925-6
Neoteny in lamprey

A record of sexual maturity in ammocoetes
of Lampetra.

GLK:glk

F

Zaneveld, J.S. (1957) 571846
Paper presented at the Inter-Island
Marine Biological Conference, March
31 - April 6, 1957
A Lithothamnion bank near Bonaire
(Netherlands Antilles)

History of earlier investigations.
Description of the bank and of its
location.

Abstract in "Report by the Institute
of Marine Biology, University of Puerto
Rico".

HR:glk

M

Zaneveld, J.S. (1957) 571847
Paper presented at the Inter-Island
Marine Biological Conference, March
31 - April 6, 1957
Micro-atolls in the Netherlands Antilles

Reviews of past work. Description of the
atolls and of forces determining their
characteristics.

Abstract in "Report by the Institute
of Marine Biology, University of Puerto
Rico".

HR:glk

M

Zaorski, R. (1957) 571848
Prace Inst.morsk.Gdansk, (9):31-50
Ochrona biologicznych zasobow morza w
umowach miedzynarodowych (Protection
of maritime biological resources as
provided for in international agreements)
En Ru

Origin of the problem; legal assumptions;
evolution of treaty law; realization of
the protection scheme in international
agreements; carrying out of agreements;
trends of development; sources and
literature.

FAO:glk

M

<p>Zeigler, J.M., W.D. Athearn 571849 and H. Small (1957) <u>Deep-Sea Res.</u>, 4(4):238-49 Profiles across the Peru-Chile trench</p> <p>Description of the bottom topography and notes on the sediments found in the trench.</p> <p>GLK:tl M</p>	<p>Zotin, A.I. (1957) 571852 <u>C.R.Acad.Sci.U.R.S.S.</u>, 115(5):1040-3 Totreblenie vody iz okruzhaiushchei sredy i obrazovanie polostei u zarodyshei sevriugi (Water uptake from the surrounding medium and formation of cavities in embryos of <u>Acipenser stellatus</u>)</p> <p>FAO F</p>
<p>Zhukov, E.V. (1957) 571850 <u>Zool.Zh.</u>, 36(6):840-6 Novye rody i vidy digeneticheskikh sosal'shchikov ryb dal'nevostochnykh morei (New genera and species of trematodes parasites of fish in the Far Eastern seas)</p> <p>Describes two genera and five spp. of trematodes parasitizing fishes dwelling in the Sea of Japan and in the South- Kuril shallow waters.</p> <p>FAO:glk M</p>	<p>Zweifel, R.G. (1957) 571853 <u>Copeia</u>, (2):78-83 A new frog of the genus <u>Rana</u> from Michoacán, Mexico</p> <p>A taxonomic description of <u>Rana dunni</u> which is compared to the related neighbouring forms <u>R. montezumae</u> and <u>R. megapoda</u>.</p> <p>HR:hr F</p>
<p>Zobell, C.E. and 571851 R.Y. Morita (1957) <u>J.Bact.</u>, 73:563-8 Barophilic bacteria in some deep sea sediments</p> <p>M</p>	<p>Anonymous (1957) 571854 <u>Progr.Fish Cult.</u>, 19(2):75 Acceleration of spawning of adult salmon</p> <p>Brief description of effect of light using <u>Oncorhynchus</u>.</p> <p>WAD:wad F</p>

Anonymous (1957) 571855
Comm.Fish.Rev., 19(2):13-4
Anchovies abundant in southern California waters

The catch of Engraulis mordax in Californian waters is regulated by law. The fishing pressure on the stocks of the species has not yet shown to be strenuous and the catches have been less than the maximum set by regulations.

FAO:sjh

M

Anonymous (1957) 571858
Svensk FiskTidskr., 66:26-7
Bergeforsens laxfiske och laxodling (Salmon fishery and hatchery at Bergefors)

Description of a modern hatchery.

FAO:tl

F

Anonymous (1957) 571856
Int.hydr.Rev., 34(2):145-6
Appareil de prise de vues de côte, type service hydrographique japonais (Apparatus for taking photographs of the coast, Japanese hydrographic service type)

Construction; ill.

FAO:glk

M

Anonymous (1957) 571859
Qd Fish., (9):1-5
Biological notes
Notes on Psettodes erumei and Chrysophrys auratus.

GLK:hr

M

Anonymous (1957) 571857
Dansk FiskTid, 75(2):18-9
Det belgiske saltvandsfiskeri drives under tre forskellige former (The Belgian sea fisheries are carried out in three different forms)

Short review of Belgian fisheries.

FAO:tl

M

Anonymous (1957) 571860
Qd Fish., 6:1-2
Biological notes
A record of catches of "ghost grinner", Harpadon translucens, in Australia.

GLK:hr

M

Anonymous (1957) 571861
New Scient., 3(57):16
Bottom warmth for surface thaw

Note on development and application of methods to bring warm bottom water of a frozen lake to the surface by aeration, and thus melting the ice.

FAO:sjh F

Anonymous (1957) 571862
Trade News, 10(3):4
Canada's sardine industry

Short ill. account of fishery of young herrings in New Brunswick.

WAD:sjh M

Anonymous (1957) 571863
Canad.Fisherm., 44(11):4-10
Canadian fisheries resources - The prospects

Estimates of the quantities of the various stocks of aquatic organisms available are tabulated, together with statistics of the current average annual catch taken from these stocks by the fishing industries of Canada and other countries.

FAO:hr MF

Anonymous (1957) 571864
Comm.Fish.Rev., 19(12):71
Clarification of fish names in article on "Fisheries of Black and Marmara seas"

Scientific and common names given in addendum to Comm.Fish.Rev., June 1957, : 56-62.

FAO:sjh M

Anonymous (1957) 571865
Int.hydr.Rev., 34(2):37-42
Correction des sondages par écho (Correction of echo-soundings)

Method employed in USSR of introducing a correction which is the algebraic sum of a correction for error of level and a correction of the echo, the latter being made either by calibration or by reference to hydrological data.

FAO:glk M

Anonymous (1957) 571866
Progr.Fish Cult., 19:172-8
The Cortland, New York, Fishery Station: a summary of twenty-five years work

The history, 1930-1957, of this experimental station devoted primarily to studies of trout nutrition.

WAD:wad F

Anonymous (1957) 571867
Industr.pesq., 31(733):13
Los crustaceos de la costa occidental
africana (The crustaceans of the
west coast of Africa)

Lists the species of economic importance
with notes on their distribution and
catch as follows: Palinurus regius,
P. mauretanicus, Penaeus kerathurus,
P. duorarum, Callynectes and Neptunus.

FAO:hr

M

Anonymous (1957) 571870
Pêche marit., (956):498
La disparition de la morue aux îles
Lofoten (Disappearing of cod at
the Lofoten islands)

Transcript of a conference considering
the problems of disappearance of
Gadus callarias from Lofoten Is. and
its migrations to the Barents Sea,
as well as the international
implications of the cod fishery in
those areas.

FAO:hr

M

Anonymous (1957) 571868
Qd Fish., 4:5-6
C.S.I.R.O. fish tagging programme

Reports recaptures of 5 sea mullets and
one tarwhine in Queensland waters
during 1955 and 1956.

GLK:sjh

M

Anonymous (1957) 571871
Chron.world Hlth Org., 11:255-60
Disposal of radioactive waste

MF

Anonymous (1957) 571869
New Scient., 2(50):30
Deep-sea midgets

Reports an undamaged crustacean taken
at 13,200 feet depth in Congo Sub-
marine Canyon and a worm at 16,200 feet
at Cape Basin (S. Africa) by nylon
trawl worked from R.V. VEMA during IGY
programme.

FAO:sjh

M

Anonymous (1957) 571872
Snipb.Snip.Rec., 89(4):104-5
The disunited nations and oil pollution

Discusses the UN report (ST/ECA/41) and
quotes from it to show the hesitation
of most nations (but not of the UK) to
take positive measures against oil-
pollution.

FAO:clk

MF

Anonymous (1957) 571873
Comm.Fish.Rev., 19(12):28-9
Driving herring schools with compressed-
air curtain

Brief account of experiments with
description of the gear used.

FAO:efa

M

Anonymous (1957) 571876
Progr.Fish Cult., 19:184
Effects of jaw tags and fin-clipping
on returns of stocked trout

Comparisons based on stocking
experiments, with Salvelinus fontinalis
and Salmo gairdneri.

WAD:wad

F

Anonymous (1957) 571874
Lab.Leafl., Lowestoft, 17:9 p.
Echo sounding in East Anglia - It works

Ill. account of location of Clupea
harengus, pilchard and horse mackerel.
Types of trace and their variability
and identification. Quantitative echo-
surveys - how they are conducted and
the observations interpreted. Relation
of trawling results and echo-survey for
cod in Barents Sea.

SJH:sjh

M

Anonymous (1957) 571877
Progr.Fish Cult., 19(2):67
Effects of jaw tags observed under
hatchery conditions

Describes results of an experiment with
Salmo gairdneri.

WAD:wad

F

Anonymous (1957) 571875
Comm.Fish.Rev., 19(12):24-5
Effect of dams on lower Susquehanna fish
populations to be studied

Notes on the objective of the project;
biological studies, and effects of dams
on young and adult fish.

FAO:efa

F

Anonymous (1957) 571878
Penn.Angler, 26(3):12
Electric fish shocker at work

Pictorial note on apparatus at work.

GLK:tjj

F

Anonymous (1957) 571879
Comm.Fish.Rev., 19(12):71-2
Expansion of North Sea fishing operations
planned

Russian plans to concentrate more
attention on North Sea fishing prepared
by Baltic Research Institute of
Oceanography.

FAO:sjh

M

Anonymous (1957) 571882
Qd Fish., 4:2-4
External anatomy of a bony fish

Sets out briefly, with aid of rough
diagram, the characteristics of size
and body proportions, fins, head, scales
and gills.

GLK:sjh

MF

Anonymous (1957) 571880
Comm.Fish.Rev., 19(12):22-3
Experimental fishing for red snapper in
Gulf of Mexico (M/V SILVER BAY cruise 4)

Gives locations of fishing stations;
specification of gear used, and rate
of catch hour.

FAO:efa

M

Anonymous (1957) 571883
Ijsselmeervisserij, 15 Aug., p. 4
F.A.O. Raadgevende Commissie voor
visserij in Europese binnenwateren
(F.A.O. Advisory Commission for
European Inland Fisheries)

WAD

F

Anonymous (1957) 571881
Comm.Fish.Rev., 19(12):29-31
Exploratory fishing cruise to Alaskan
waters completed (M/V TORDENSKJOLD
cruise 32)

Brief account of TORDENSKJOLD cruise 32,
with notes on distribution of king crab,
bottom fish and shrimp.

FAO:efa

M

Anonymous (1957) 571884
Quart.Bull.S.Pacif.Comm., 7(1):39-42
FAO's work in world fisheries

MF

Anonymous (1957) 571885
World Fish., Oct.:69-70
Finding fish on the sea bed

Short ill. note on "white line"
technique of distinguishing fish echoes,
and on a new design of equipment for
open boats.

FiB:sjh

M

Anonymous (1957) 571886
Chamber's Encyclopaedia World Survey,:
106-10
Fisheries

A review of the history of international
cooperation with regard to fisheries
especially since World War II, with map
of areas served by regional organizations
and table of country membership of these
bodies.

SJH:sjh

MF

Anonymous (1957) 571887
New Scient., 3(57):17
Fishing in New Guinea

Announcement of beginning of operations
of 60-foot F.R.V. TAGULA off southern
coast of Papua. Programme includes
pilot freezing studies, gear improvement
experiments, and demonstration to local
fishermen.

FAO:sjh

M

Anonymous (1957) 571888
Engineer, London, 204:572-3
Flash evaporator for continuous
distillation of sea water

M

Anonymous (1957) 571889
Comm.Fish.Rev., 19(12):74-6
"Flying Saucer" float

New English design of metal trawl float,
described and figured.

FAO:sjh

M

Anonymous (1957) 571890
Comm.Fish.Rev., 19(12):27
Haddock tagging and collecting cruise
completed (ALBATROSS III cruise 104)

A brief account of ALBATROSS III cruise
104, with notes on and numbers of
tagged haddock, cod, halibut and dogfish.

FAO:efa

M

Anonymous (1957) 571891
Progr. Fish Cult., 19(2):84
Handling minnows in perforated plastic bags

Describes use of polyethylene bags for the bait minnows Pimephales promelas and Hyborhynchus notatus for holding and transit.

WAD:wad

F

Anonymous (1957) 571894
Trade News, 10(3):3
Inspection vessel joins fisheries fleet

Entry to service, and program of work of BELLE BAY.

WAD:sjh

M

Anonymous (1957) 571892
Fish Ind., Moscow, (12):3-5
Usilit' rol' rybokhoziaistvennoi nauki v razvitii rybnoi promyshlennosti
(Increasing the role of fishery science in the development of the fishing industry)

FAO

MF

Anonymous (1957) 571895
Discovery, 18(7):277-8
The International Geophysical Year

A popular account of the purpose, aims and programme.

FAO:tl

M

Anonymous (1957) 571893
Africa, Madrid, 14(183):117-8
La industria pesquera en Africa Occidental Española (The fishing industry in Spanish W. Africa)

Anonymous (1957) 571896
Trans.Amer.geophys.Un., 38:1016-9
IGY Bulletin - Arctic Ocean submarine ridges

Review of the bathymetric features and water circulation in Arctic Ocean as measured from the drifting stations ("ice islands").

II

TL:tl

M

Anonymous (1957) 571897
Trans.Amer.geophys.Un., 38:1019-21
Bulletin - Oceanographic island
observatory in Iceland

Description of the observatory and its
programme, with emphasis on the micro
wave recording problems.

PL:tl

M

Anonymous (1957) 571900
Fish.Inf.Bull., Sept. 13, p. 149
Law of the sea conference

Describes arrangements for U.N. meeting
to be held in Geneva, Feb.-Apr. 1958.

FAO.sjh

M

Anonymous (1957) 571898
Fish.Inf.Bull., Sept. 27, p. 159
Japanese study of Brazilian fishery
resources

Report of exploration by R.V. TOKO MARU
since December, 1956, for tuna off Rio
Grande do Sul and Rio de Janeiro.

FAO:sjh

M

Anonymous (1957) 571901
Fish.Inf.Bull., Sept. 27, p. 157
Louisiana Canal's effects on fish and
wildlife

Reports a letter from U.S. Secretary
of the Interior to the Secretary of the
Army concerning the possible effect of
Mississippi River-Gulf Project in
Louisiana on commercial and sport
fishery resources.

FAO:sjh

MF

Anonymous (1957) 571899
Qd Fish., 4:4-5
Keep an eye on the gannets

An account of bird surveys.

GLK:sjh

M

Anonymous (1957) 571902
Chron.Outre-Mer, 31:54-6
Madagascar; un poisson du lac Itasy
(Madagascar; a Lake Itasy fish)

Description of an autochthonous fish
species found in Lake Itasy (Madagascar),
Ptychochromis betsileanus may easily be
confused with Paratilapia polleni. As
attempts to transfer this fish to
Tananarive have failed, an investigation
was made to obtain data regarding its
habitat and oxygen requirements.

:glk

F

Anonymous (1957) 571903
Sci.Pêche, 48:5-6
Marquage des maquereaux (Tagging of
mackerel)

A short note on tagging of 1500 Scomber scombrus by the research vessel
PRESIDENT-THEODORE-TISSIER in 1957 at
the west entrance of the English Channel.

FAO:hr

M

Anonymous (1957) 571906
New Scient., 2(48):8-9
A mystery of the sea floor

Feasability of obtaining samples of rock
underlying thick sediments at depths of
the order of 200 metres and more.

FAO:sjh

M

Anonymous (1957) 571904
Progr.Fish Cult., 19:192
Maximum - minimum water gauge

Describes an inexpensive and simple
gauge to record fluctuations in water
level.

WAD:wad

F

Anonymous (1957) 571907
Progr.Fish Cult., 19(1):31
Neutralizing electrostatic charge on
rolling-mill scale press

Use of "Staticmasters" (brushes with
strips of radioactive polonium) for this
purpose on press for plastic impressions
of fish scales.

WAD:wad

F

Anonymous (1957) 571905
Comm.Fish.Rev., 19(12):54-5
Modern trawler to investigate fishery
potential of Great Australian Bight

Brief review of the Australian fishery,
with notes on the new project of
commercial trawling in the Bight.

FAO:efa

M

Anonymous (1957) 571908
Fish.News Lett.Aust., 16(8):5, 27
New prawn ground discovery on first
stage of year's survey

Preliminary announcement of finding
Penaeus plebejus, P. esculentus and
P. merguensis in southern Queensland
waters near Hervey Bay.

GLK:glk

M

Anonymous (1957) 571909
Comm.Fish.Rev., 19(12):55-7
 New shrimp resource discovered on first
 stage of year's survey

Gives location of extensive new ground
 near Queensland, with a description of
 of the government chartered trawler
 CHALLENGE to fish on the ground.

FAO:efa

M

Anonymous (1957) 571910
Keesing's contemp.Arch., 1957-1958,
 15501, A.

Oceanography - Discovery of 45,000-mile
 fissure in the world's ocean beds:
 Connexion with world earthquake zone

Ill. account of announcement by M. Ewing
 and B. Heezen.

:sjh

M

Anonymous (1957) 571910
Fish.Inf.Bull., Sept. 13, p. 152
 Northeastern Pacific albacore survey

Reports completion of survey of fishing
 grounds made by 2 research vessels and
 7 chartered vessels, sponsored by the
 U.S. Bureau of Commercial Fisheries.

FAO:sjh

M

Anonymous (1957) 571913
Rapp.Landbouw-Econ.Inst., 257:31 p.
 Onderzoek naar de bedrijfsresultaten van
 de garnalenvissersrij in 1954 en 1955
 (Investigations on the draft results of
 the shrimp fishery in 1954 and 1955)

Investigations of the catch on different
 grounds and of the economy of the Dutch
 shrimp fishery.

:tl

M

Anonymous (1957) 571911
Industr.pesq., (734):14-5
 La oceanografía y la pesca
 (Oceanography and fishery)

Anonymous (1957) 571914
Comm.Fish.Rev., 19(12):22
 Otter-trawling and gill-netting survey
 of eastern Lake Erie (M/V/ CISCO cruise 8)

Account of survey of fishery resources
 in the lake with notes on spp.
 composition of catches and hydrographic
 conditions at the time of survey.

FAO

M

FAO:efa

F

Anonymous (1957) 571915
Fish. News Lett. Aust., 16(12):13
N.G. fishery research ship

Brief account of design, equipment,
proposed operations and area in which to
be used.

GLK:glk

M

Anonymous (1957) 571916
Comm. Fish. Rev., 19(12):57-8
Pearl-shell operations off Australian
coast by Japanese in 1957

Brief review of the activities of
Japanese fishermen; conservation measures
taken, and prohibitions against operating
within 10 miles of mainland.

FAO:efa

M

Anonymous (1957) 571917
Pêche marit., 36:302-3
La pêche du thon en Côte d'Ivoire
(Tuna fisheries along the Ivory Coast)

Notes on the fishery.

AS:ar

M

Anonymous (1957) 571918
Penn. Angler, 26(1):12-3
Pennsylvania fishes

Contains information on range, habits
and characteristics of Minytrema mela-
nops, Erismyzon oblongus, Osmerus mordax,
Notemigonus crysoleucas, Notropis
hudsonius and Notropis atherinoides.

GLK:hr

F

Anonymous (1957) 571919
Penn. Angler, 26(2):12-3
Pennsylvania fishes

Contains data on distribution and life
history, and feeding habits of Pime-
phales promelas, Rainichthys atratulus,
Nocomis biguttatus, Eucalia inconstans,
Noturus flavus, Notropis cornutus,
Chrosomus erythrogaster, Boleosoma
nigrum.

GLK:hr

F

Anonymous (1957) 571920
Lab. Pract., 6:721-6
pH equipment in the laboratory

MF

Anonymous (1957) 571921
Marchés trop.Monde, 13(592):726-7
La pisciculture s'est considérablement
développée en 1956 (Pisciculture
expanded considerably in 1956)

F

Anonymous (1957) 571924
Contract.Rec., 68(6-7)
Radioactive probe traces sewage

MF

Anonymous (1957) 571922
Outdoor Calif., 18(4):1
Poll shows hunting, angling spending in
state

Describes methods used in and results of
a survey made in California, U.S.A. in
1955.

WAD:wad

MF

Anonymous (1957) 571925
Progr.Fish Cult., 19:178
Rainbow trout bred in salt water

A brief description of Salmo gairdneri
culture in a salt-water-farm in
Denmark

WAD:wad

M

Anonymous (1957) 571923
Comm.Fish.Rev., 19(2):23-5
Preliminary experiments to develop a new
mechanical method for control of oyster
drills

On the basis of experiments the method
of burying the drills (Urosalpinx
cinerea) by bottom plowing is
recommended. Bottom plowing as a method
of drill extermination should be
repeated at about two-week intervals
to eliminate the drills escaped from
the first plowing.

FAO:sjh

MF

Anonymous (1957) 571926
International Pacific Halibut Commission,
(25)
Regulation and investigation of the
Pacific halibut fishery in 1956

M

Anonymous (1957) 571927
New Scient., 2(48):7-8
The Russians look into space

Reports research in progress in USSR on palatability of algae and derived products as food for space travel.

FAO:sjh

F

Anonymous (1957) 571930
Fish.Inf.Bull., Sept. 13, p. 151
Shrimp in Australia

Reports discovery by Government Survey, and beginning of exploitation of grounds 6-20 miles off S. Queensland near Fraser and Gt. Sandy Island, in 35 fathoms.

FAO:sjh

M

Anonymous (1957) 571928
Qd Fish., (3):3-5
The sand crab (Portunus pelagicus)

Notes on the structure, habits, parasites and catches of Portunus pelagicus.

GLK:hr

M

Anonymous (1957) 571931
Comm.Fish.Rev., 19(12):23-4
Shrimp, tuna, and live-bait explorations off Central America (M/V OREGON cruise 46)

Brief account of exploratory shrimp trawling, tuna fishing and determination of live-bait availability. Incl. locations of stations and figures for catches.

FAO:efa

M

Anonymous (1957) 571929
Comm.Fish.Rev., 19(12):27
Sea scallop tagging and spawning observations (M/V ALBATROSS III cruise 103)

Brief account of ALBATROSS III cruise 103, with notes on spawning condition of scallops; tagging; underwater photography, and hydrographic data collected.

FAO:efa

M

Anonymous (1957) 571932
Progr.Fish.Cult., 19(1):13
Simplified transport for smaller numbers of salmonids

Describes aeration equipment readily adaptable to use in passenger automobile using car battery, vibrator converter, piston pump and rubber tube manifold system.

WLD:wad

F

Anonymous (1957)
Louisiana Conserv., 9:19-20
Skin divers wage war on gar!

571933

Description of reduction of gars by
underwater spearing (skin diving) in
Louisiana.

FAO:wad

F

Anonymous (1957) 571936
Science, 126:920
Stagnant deep-sea trench to be studied

Notes on the programme of research for
ATLANTIS to study a trench in Caribbean
Sea.

FAO:efa

M

Anonymous (1957) 571934
Comm.Fish.Rev., 19(12):31-2
Skipjack tuna concourse areas survey
completed (JOHN R.MANNING cruise 37)

Account of observations made on the
distribution, food and behaviour of
the sp. in Hawaiian waters.

FAO:efa

M

Anonymous (1957) 571937
Progr.Fish Cult., 19(2):91
Studies on Tilapia in Taiwan

Note on physiological and ecological
studies.

WAD:wad

F

Anonymous (1957) 571935
Comm.Fish.Rev., 19(12):32-3
Sockeye salmon enter Willamette river for
first time

Reports run of Onchorhynchus nerka in the
river system as a product of fingerlings
released in adult salmon holding pools
at Dexter Dam.

FAO:efa

MF

Anonymous (1957) 571938
Discovery, 18(3):98-9
Synthetic detergents and foaming in
sewage

Review and comment on Ministry of
Housing and Local Government. "Report
of the Committee on Synthetic Detergents",
H.M.S.O., London, 1956.

FAO:sjh

F

Anonymous (1957) 571939
Visao, São Paulo, 13:39, 41
 O TOKO-MARU gostou. Não precisamos de
 bacalhau (The TOKO-MARU liked it.
 We do not need cod fish)

Comments on Brazilian fish imports. The
 "pirarucu" fisheries in the Amazon river.
 Results of the study made by the Japanese
 vessel TOKO-MARU to explore the fishery
 possibilities of the Brazilian coast.
 Table of quantity (t) and value (Cr\$) of
 cod fish imports, 1936/56.

FAO:hr

MF

GLK:hr

M

Anonymous (1957) 571940
Now Scient., 2(47):11
 Trawlers and transom sterns

Briefly describes changes in bow and
 stern shape in new British deep-sea
 trawlers, and their effect on speed.

FAO:sjh

M

Anonymous (1957) 571943
Comm.Fish.Rev., 19(12):58
 Tuna resources off Western Australia

Brief notes on occurrence of Neothunnus
tonggol, Euthynnus alletteratus,
Neothunnus macropterus, Katsuwonus
pelamis and Gymnosarda nuda.

FAO:efa

M

Anonymous (1957) 571941
New Scient., 3(54):32
 Trends and discoveries - Currents and
 submarine cables

Brief review of 570474.

Anonymous (1957) 571944
Progr.Fish Cult., 19:167
 Two modifications of the Secchi disk

Describes methods of attaching rules to
 disks used in farm-pond studies.

FAO:efa

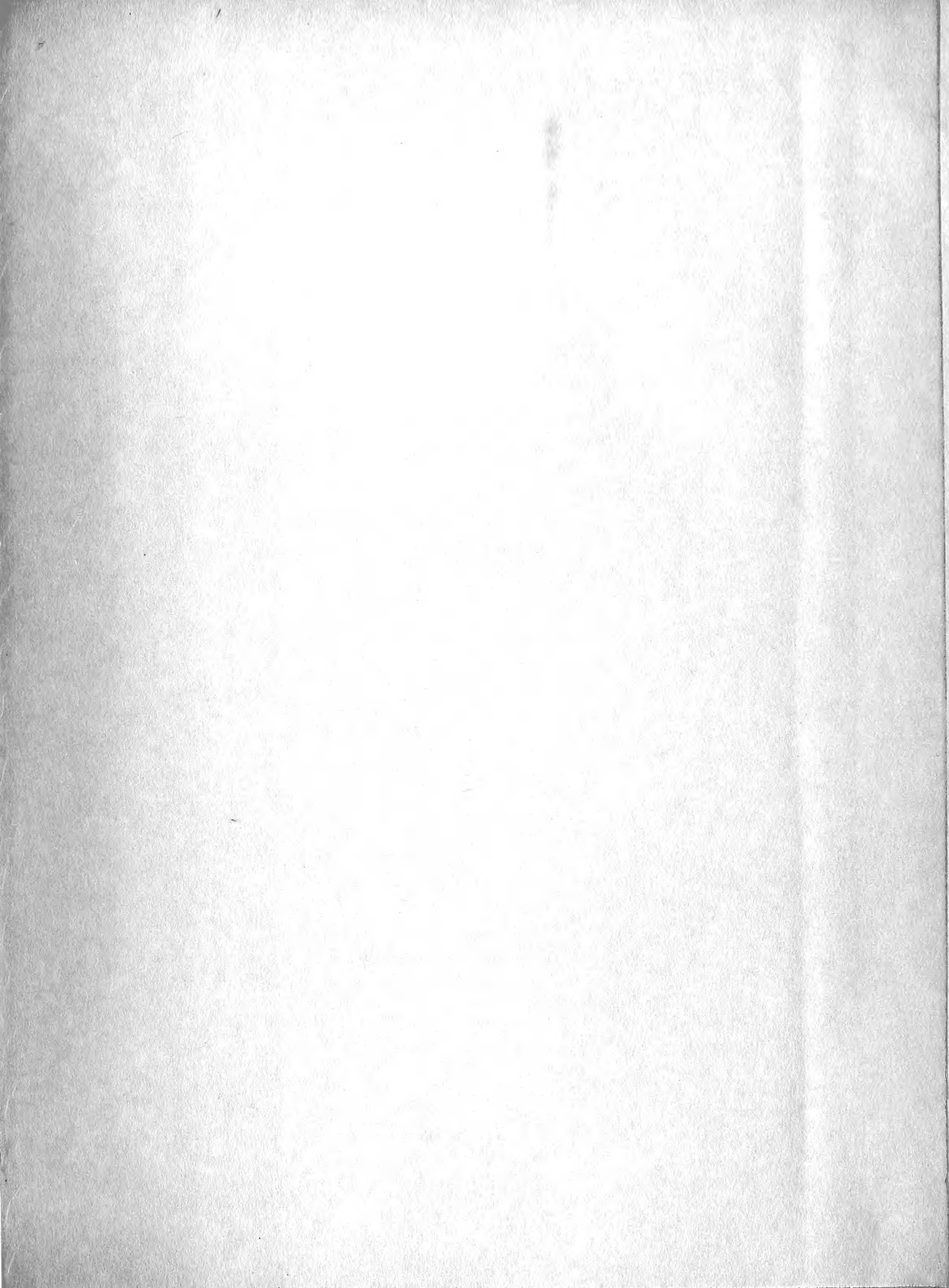
M

WAD:wad

F







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